

# KV-27XRD/27XRTD

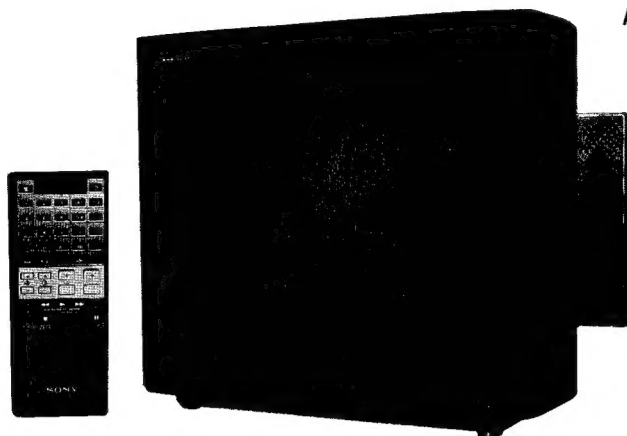
## RM-664

## SERVICE MANUAL

*AEP Model*

*KV-27XRD Chassis No. SCC-784D-A*

*KV-27XRTD Chassis No. SCC-784B-A*



# SX CHASSIS

July, 1986

### SPECIFICATIONS

**Note:** The service manual for RM-664 has been issued separately.

Television system	CCIR B, G and H	Outputs	Audio output connector (pin)
Colour system	PAL		Line output
Channel coverage	VHF channels A-H2 UHF channels 21-69		Variable 0-2 Vrms (max.)
Programming system	30 programmes		Impedance less than 1 kilohm
Picture tube	Automatic programming digital tuning		External speaker terminals (2-pin DIN)
	Approx. 68cm (27 inches)		For 16 ohm speakers
	114-degree deflection Trinitron system	Power requirements	Headphones jack (stereo phone jack)
	(Approx. 64 cm picture measured diagonally)	Power consumption	220-240 V ac, 50 Hz
Antenna	75-ohm standard antenna socket (BS3041/IEC169-2)	Dimensions	115 Wh
Speakers	Two speakers	Weight	(Approx. 6W in standby condition)
	Approx. 10 cm dia.	Accessory supplied	Approx. 773x562x479 mm (w/h/d)
Audio output	5W + 5W (with 10% harmonic distortion)		Approx. 50kg
	15W + 15W (music power)		RM 664 Remote Commander (1)
Input	21-pin connector	Optional accessory OPK-113 BGS teletext adaptor.	
	in accordance with the requirements of CENELEC Standard	(KV-27XRD ONLY)	
	21-Pin connector RGB input unconnected	Design and specifications are subject to change without notice.	
Remote control system infrared control			
Power requirements	3 V dc		
	2 batteries IEC designation R03 (size AAA)		
Dimensions:	Approx. 67 x 18 x 174mm (w/h/d)		
Weight	Approx. 160g (3.5 oz) incl. batteries		
Accessories supplied	IEC designation R03 battery (2)		




TRINITRON® COLOR TV  
**SONY®**

**CTV**

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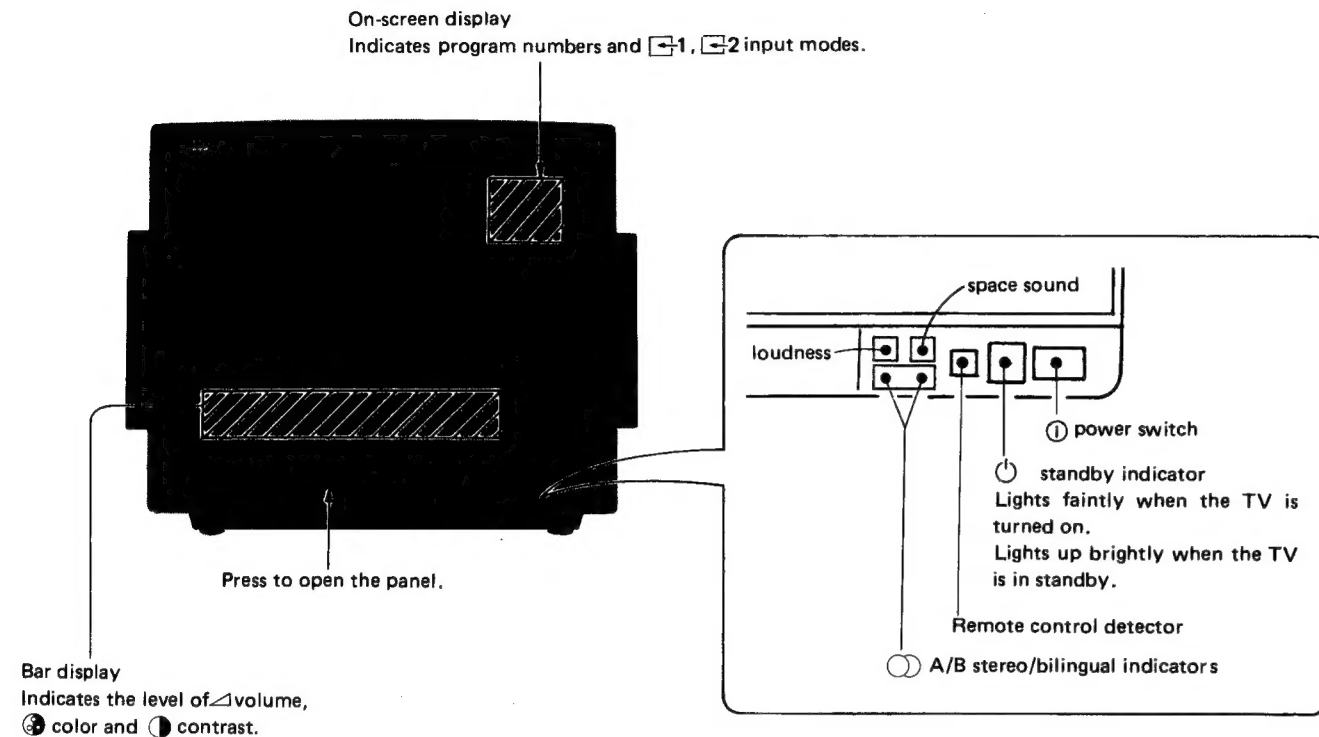
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### SAFETY-RELATED COMPONENT WARNING !!

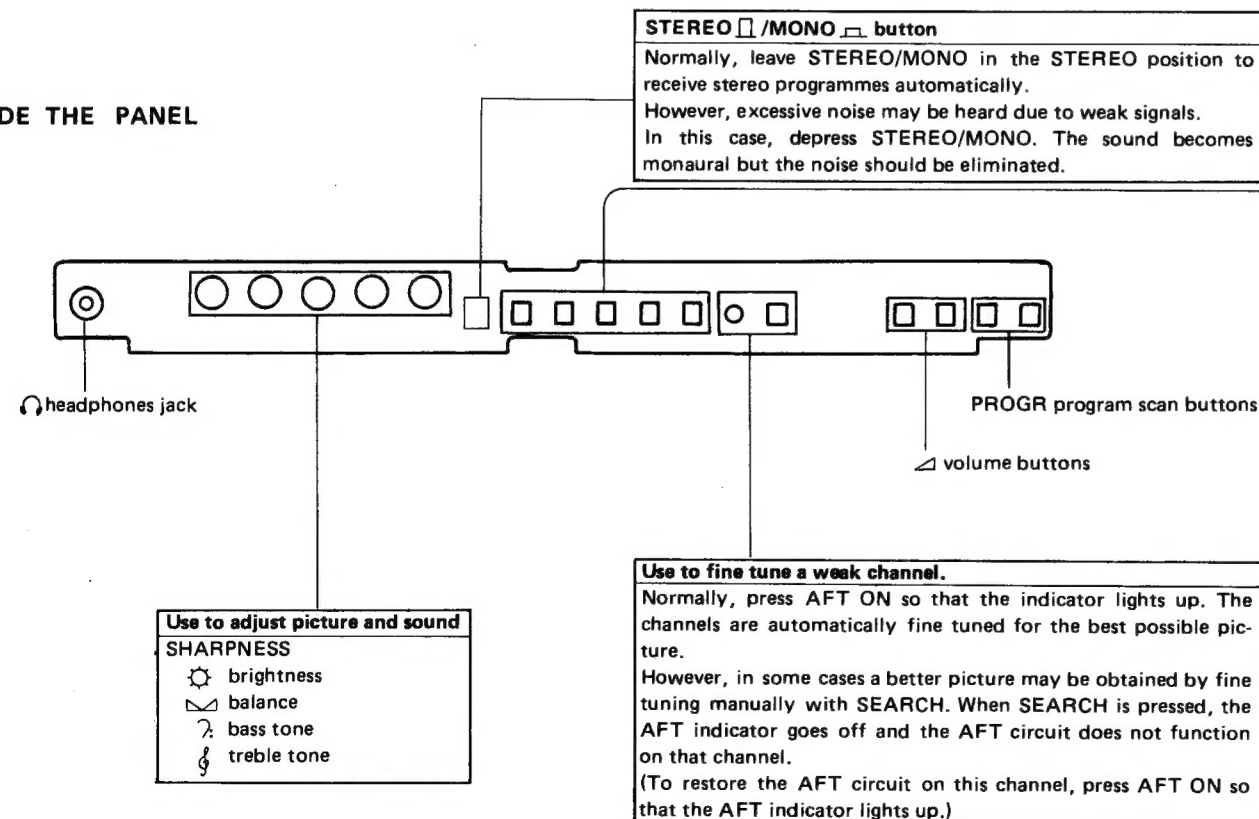
COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## SECTION 1 GENERAL

### 1-1. FUNCTION OF CONTROLS



### INSIDE THE PANEL



### CONNECTING OTHER EQUIPMENT

Rear of the TV	Use
L/G/S left external speaker terminal	Connect to external speakers. The TV speakers will be disconnected.
R/D/D right external speaker terminal	
R/D/D right audio output jack	Connect to audio equipment.
L/G/S left audio output jack	
1 21-pin connector (CENELEC standard)	Connect to a VTR, micro computer, etc. The picture of the TV channel being received is always output. The picture of 2 can be watched while recording a TV program with the VTR connected to 1.
2 21-pin connector (without RGB input)	Connect to a second VTR. The picture displayed on the screen is always output. The picture of 1 can be recorded with the VTR connected to 2, while monitoring the picture.
antenna socket	Connect to the antenna

### VTR operation using the supplied Commander

To control an 8mm VTR, set the switch inside the battery compartment to IR. Set to the unmarked position to control other VTR's.

Remote operation of the VTR is limited to the features and functions of the VTR. For further details refer to the VTR manual.

### USE TO TUNE IN RECEIVABLE CHANNELS

#### To tune in all channels automatically:

- 1 Press PRESET.  
Press PROGR to select the program position from which tuning is to start.
- 3 Press AUTO PROGR.  
The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 1.  
When tuning has been completed, the set returns to the position where tuning started.

#### To tune in a particular channel in any desired program position:

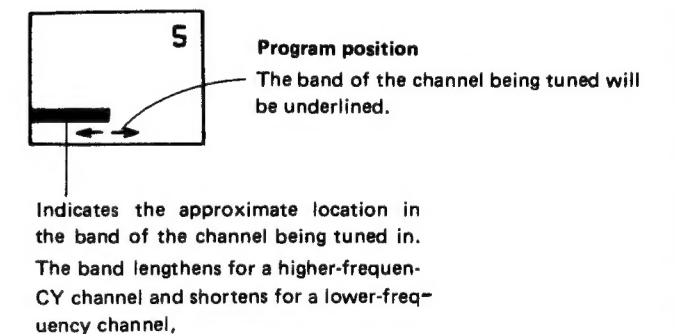
- 1 Press PRESET.
- 2 Press PROGR to select the desired position.
- 3 Press CLEAR.
- 4 Press SEARCH repeatedly until the desired channel appears.
- 5 Repeat steps 2 to 4 for all desired channels.
- 6 Press PRESET again.

#### To skip unused program positions:

- 1 Press PRESET.
- 2 Press PROGR to select the unused position.
- 3 Press CLEAR.
- 4 Repeat steps 2 and 3 for all unused positions.
- 5 Press PRESET again.

This program position will be skipped whenever PROGR ON the commander is pressed.

### ON-SCREEN DISPLAY WHILE TUNING



**1-2. VIEWING TELETEXT**

The numbers and symbols on the Commander for the teletext mode are in green.

**OPERATION**

- 1 Select the TV channel for the desired teletext service.
- 2 Press TEXT/MIX to display the teletext service.

To return to the TV mode, press TV.




To display the index page  
Press INDEX.

To display the desired teletext page  
Key in the three digits for the desired page using the number buttons.


To request a higher-numbered or lower-numbered page  
Press PAGE + or -.

To superimpose the teletext page on the TV picture  
Press TEXT/MIX.

To hold a teletext page so that it cannot be updated  
Press HOLD. To resume normal teletext reception, press TEXT/MIX.

To enlarge the teletext display  
Press  /  / . Press once to enlarge the upper half of the display; press twice to enlarge the lower half of the display; press three times to return to the normal display.

To reveal the answers to a quiz  
Press REVEAL.

To adjust the brightness of the teletext display  
Press .

To display the teletext service of another channel

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press TEXT/MIX.

To have a requested page broadcast at a predetermined time

- 1 Request time coded page
- 2 Press TP ON. The time display in the top right hand corner of the screen starts flashing.
- 3 Enter your request time with the number buttons, using four digits. For example, 07:30.

To cancel the request, press TP OFF.

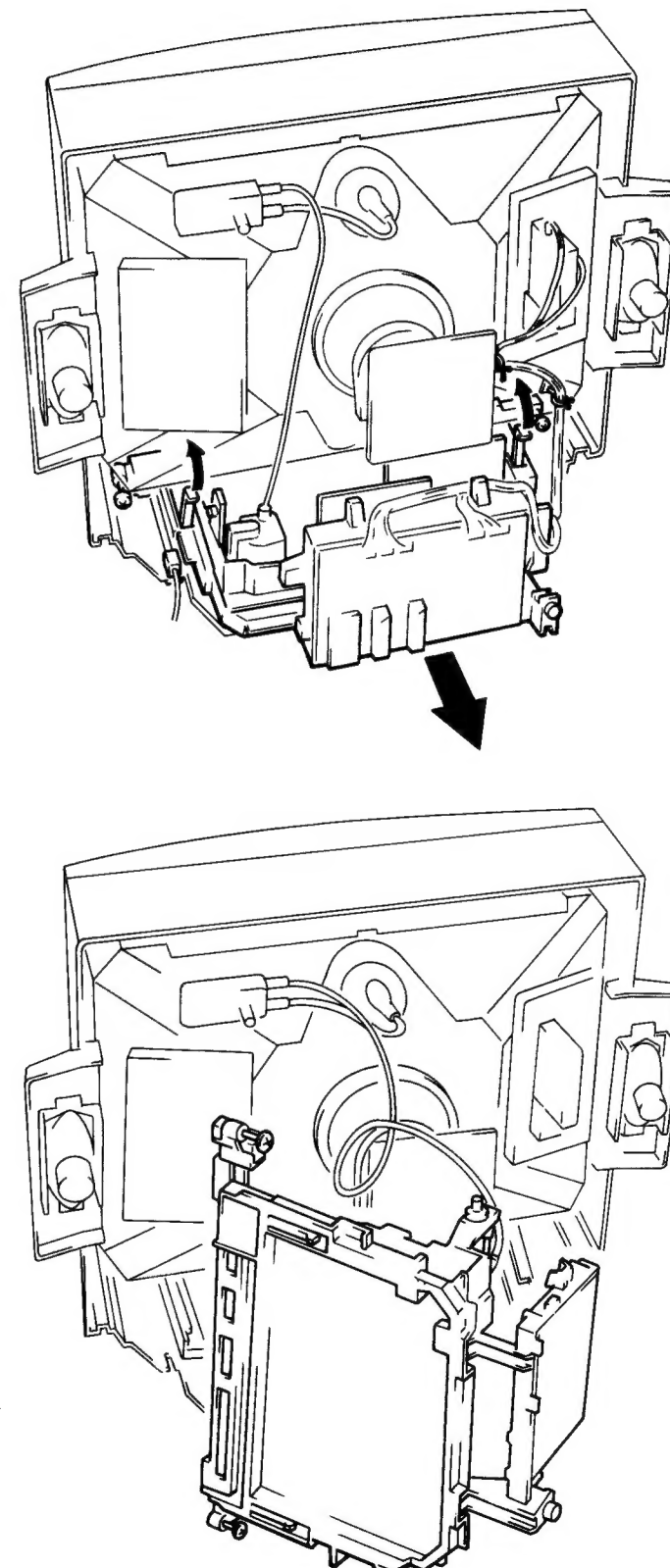
To watch a TV program while waiting for the requested page to be displayed

- 1 Request new page.
- 2 Press TEXT CL to display the TV program. The TV channel cannot be changed.

When the requested page has been captured by the adaptor, the page number is indicated in the top left hand corner of the screen. To display this page, press TEXT/MIX.

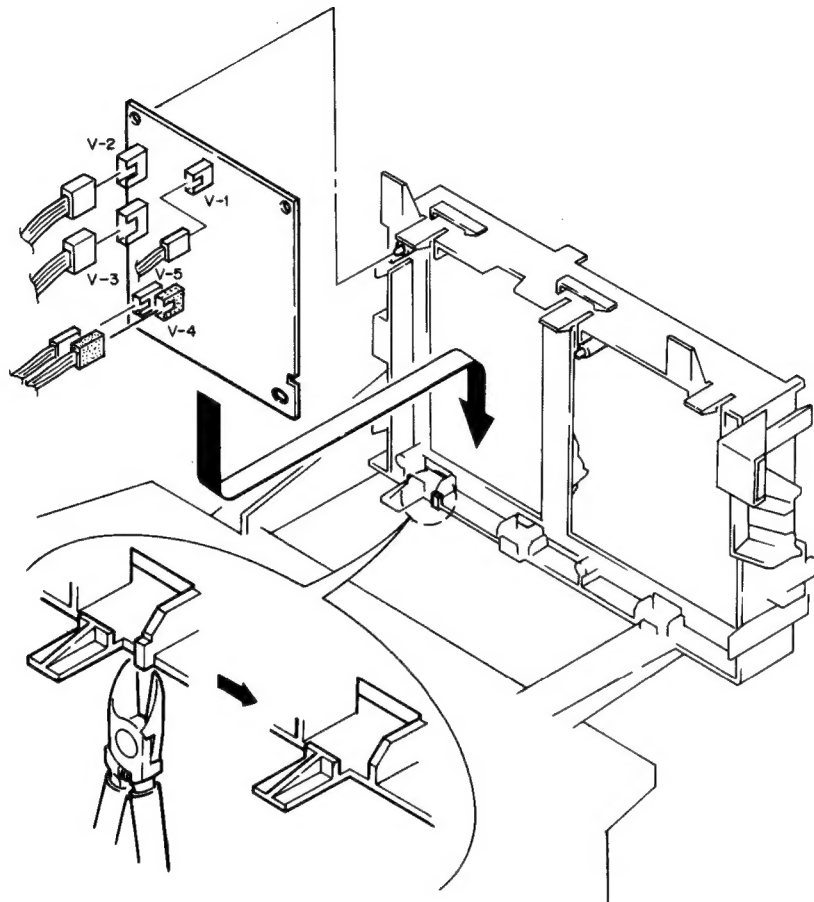
**Notes**

To prevent misoperation, keep AFT ON switched on in the teletext mode.

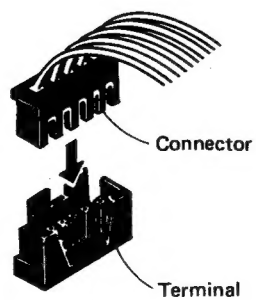
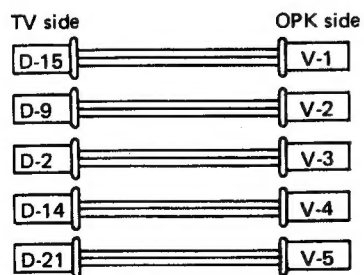
**SECTION 2  
SERVICE POSITION****2-1. SERVICE POSITION**



**2-2. OPK-113 BGS ATTACHING (KV-27XRD ONLY)**

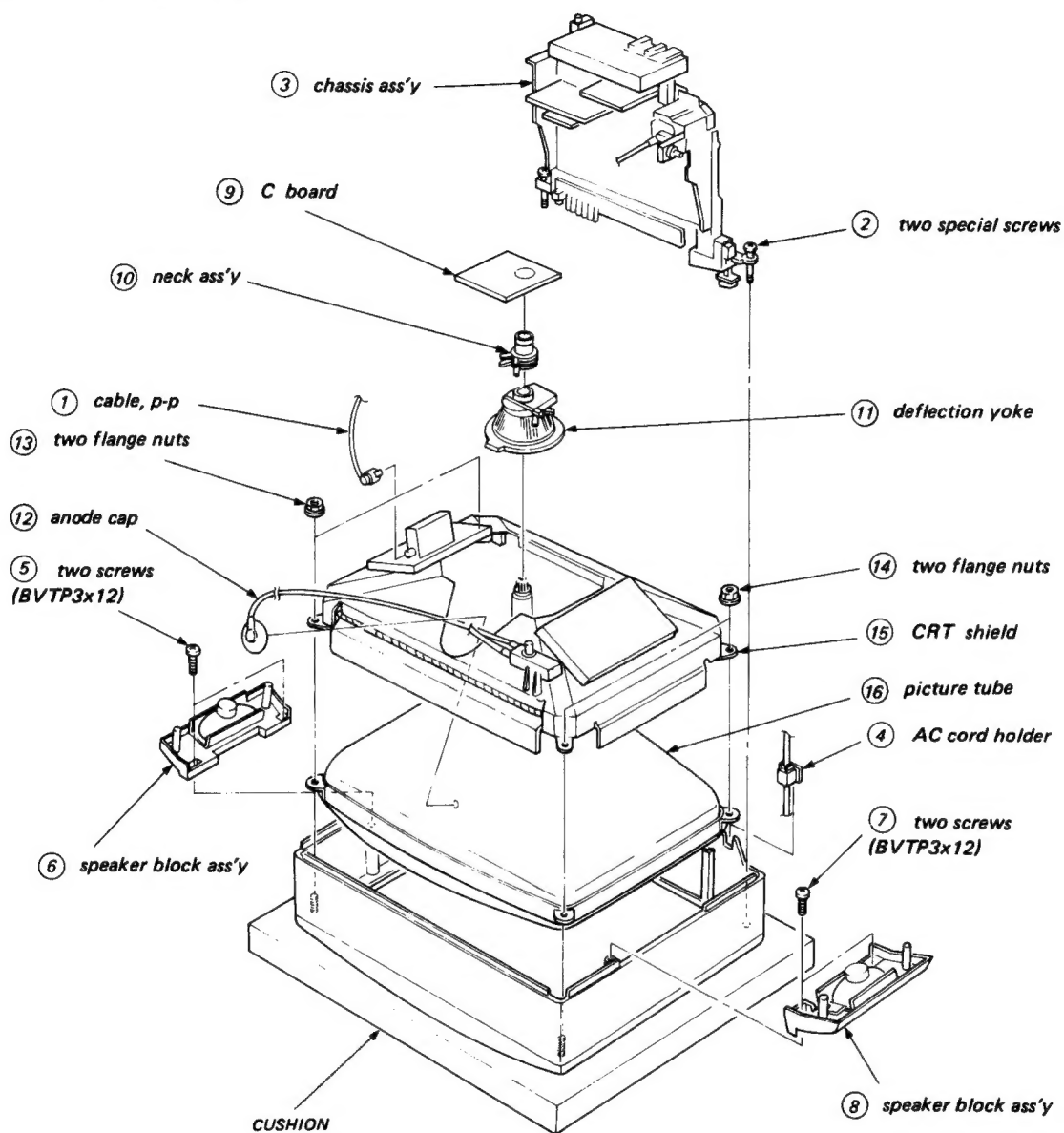


Connect to the same number terminal as the connector.

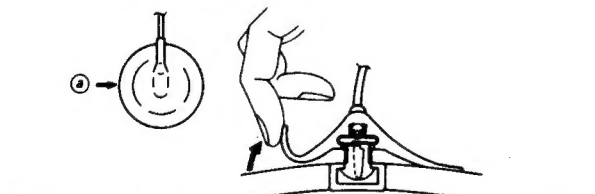


## SECTION 3 DISASSEMBLY

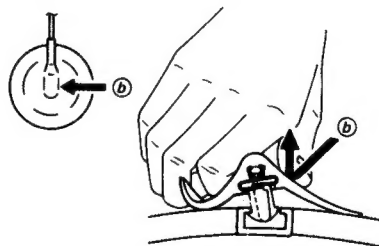
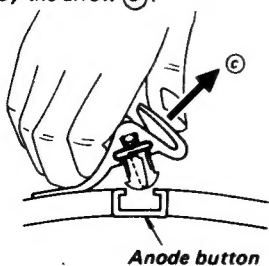
### 3-1 PICTURE TUBE REMOVAL



### • ANODE CAP REMOVAL



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



- ② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow (b).

- ③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow (c).

## SECTION 4

### SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed. These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

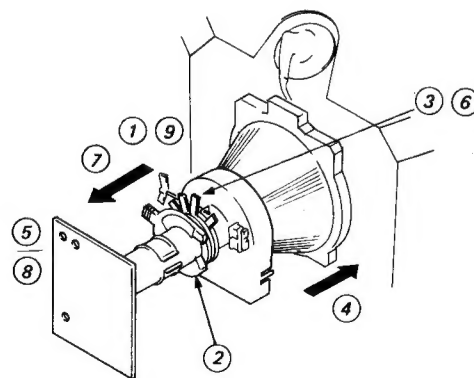
- (picture) button . . . . . 80% (or normal by commander.)  
(Press ● + button)  
☀ (brightness) control . . . . . CENTER CLICK Position

#### 4-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Position neck ass'y as shown in Fig. 4-1.
3. Adjust purity control as shown in Fig. 4-2.
4. Slide deflection yoke as far forward as it will go.
5. Turn the raster signal of the pattern generator to red.
6. Adjust purity control to center vertical red band as shown in Fig. 4-3.
7. Slide deflection yoke back for a uniform red screen.
8. Check green and blue rasters for uniformity by performing the same way as steps 5, 6 and 7.
9. Tighten the deflection yoke screw.
10. Check if mislanding appears at corners a - d as shown in Fig. 4-4. If mislanding is observed, correct it as shown in Fig. 4-4.
11. Confirm that beam landing is correct when the receiver is faced in all directions.



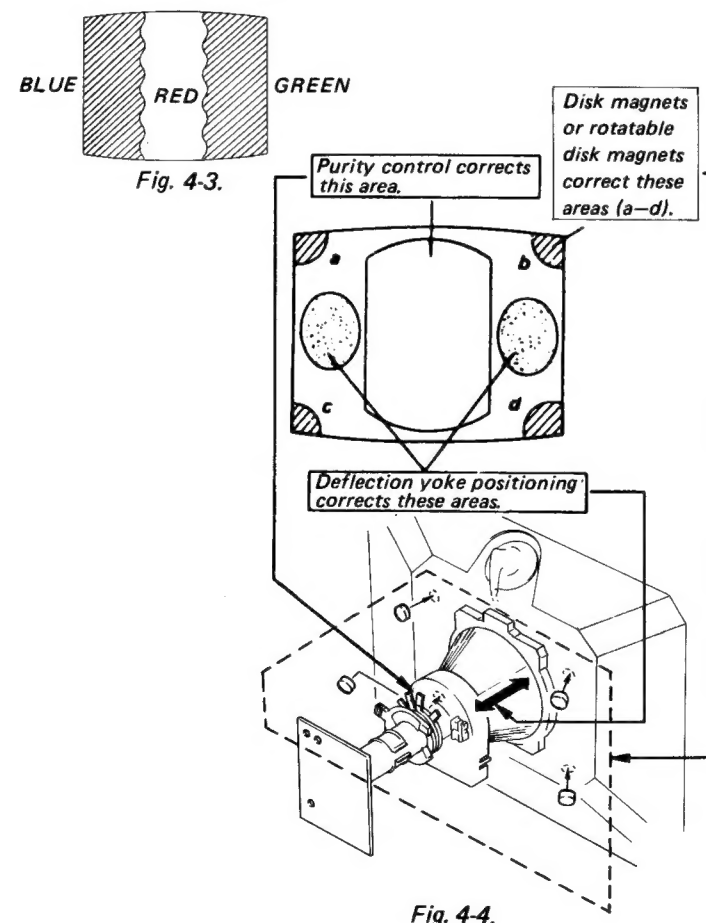
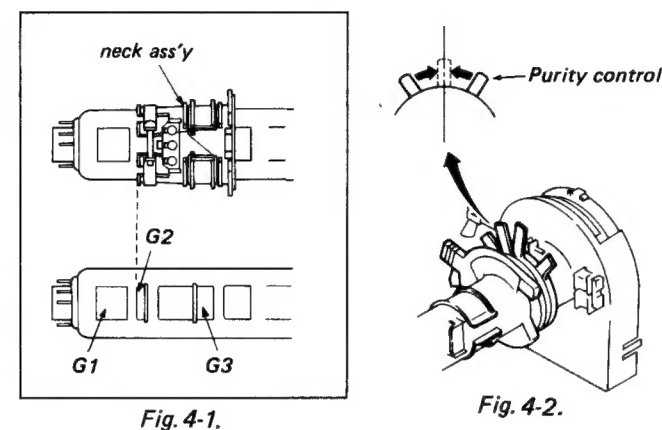
Note: The circled numbers (1) - (9) show above steps.

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. SCREEN and White Balance
4. Focus (RV902)
5. V. CENT Adjustment

Note: Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser



#### 4-2. CONVERGENCE

Preparation:

- Before starting this adjustment, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Turn BRIGHTNESS control fully counterclockwise.
- Feed in a dot signal.

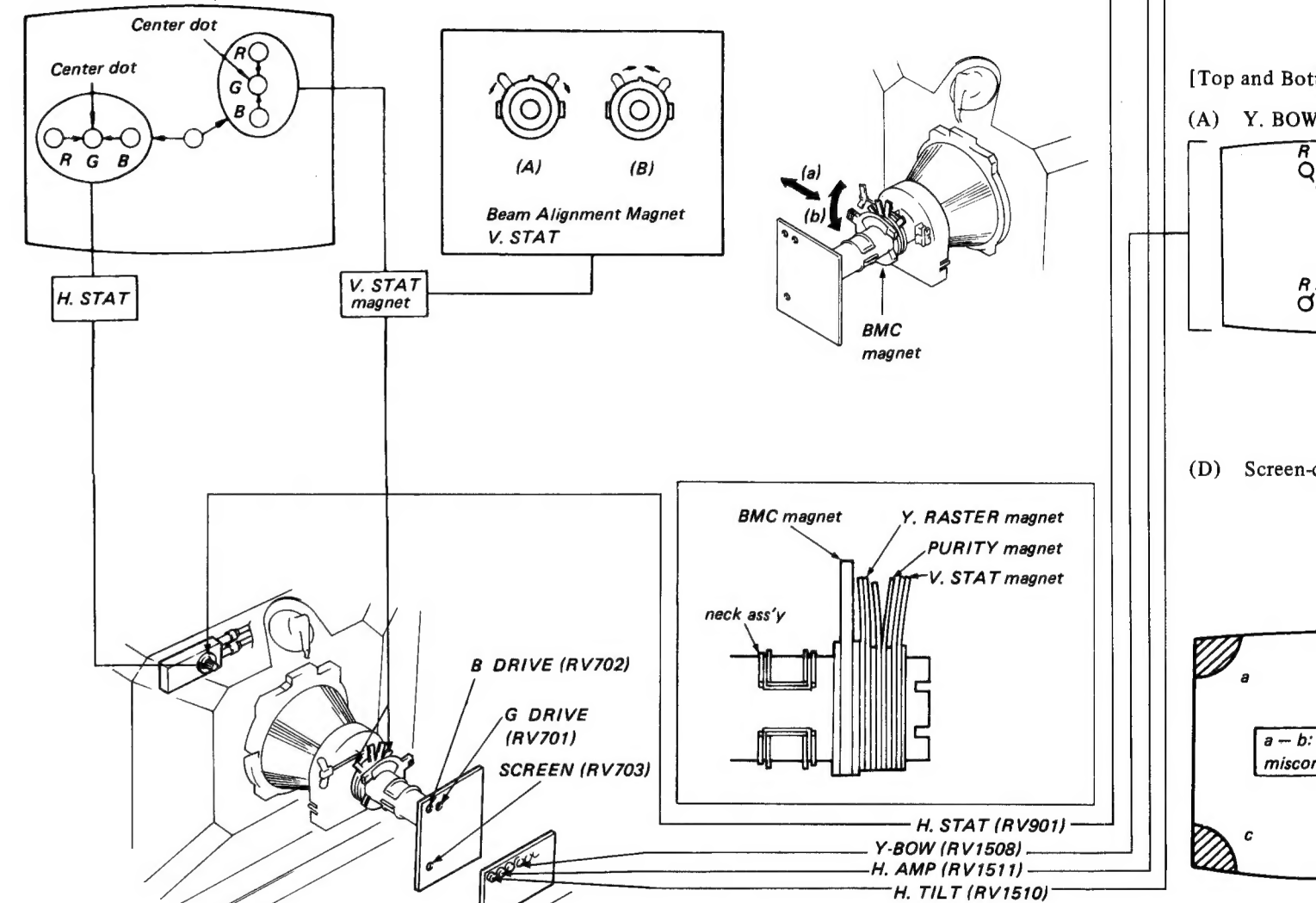
- (1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots, perform following steps.

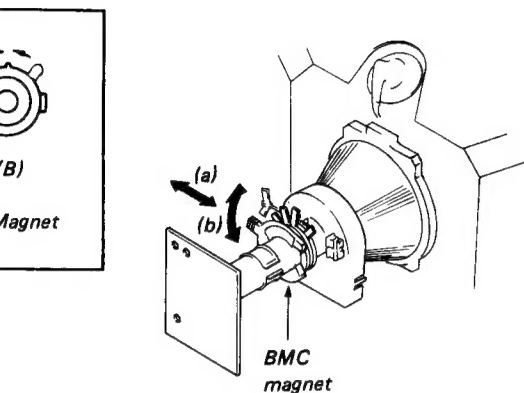
Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.

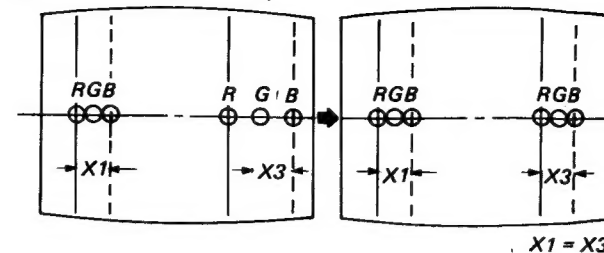


blue dot does not coincide with red and green, perform following steps.  
 Move BMC magnet (a) to correct insufficient static convergence.  
 Rotate BMC magnet (b) to correct insufficient static convergence.  
 In other case, repeat Beam Landing Adjustment.



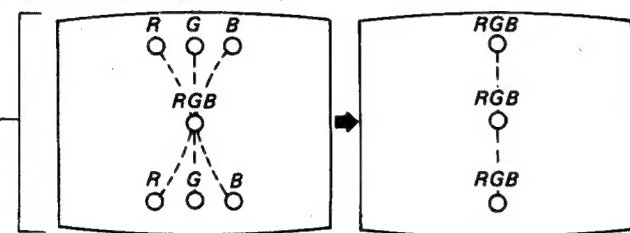
- (2) Dynamic Convergence  
 [Misconvergence at Both Sides of Screen.]
1. Set RV1511 and RV1510 to mechanical center.
  2. Adjust H. STAT control so that green and blue dots coincide at center of screen.
  3. Adjust RV1510 so that X1 is equal to X3.
  4. Adjust RV1511 so that X2 is equal to X3.
  5. Repeat above Steps 1 through 4 two or three times.

## (B) H. TILT (RV1510)

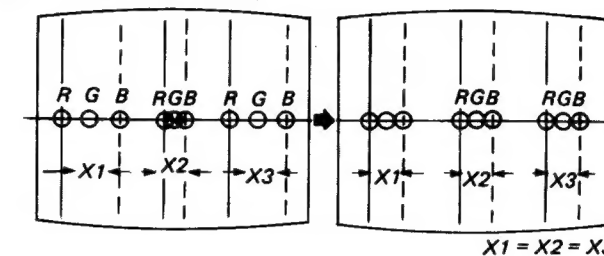


## [Top and Bottom Misconvergence]

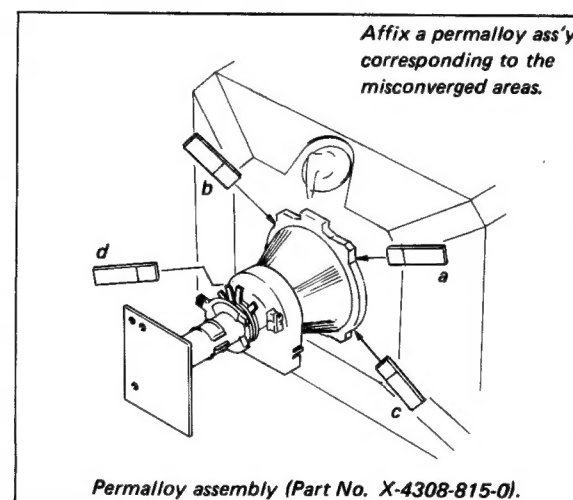
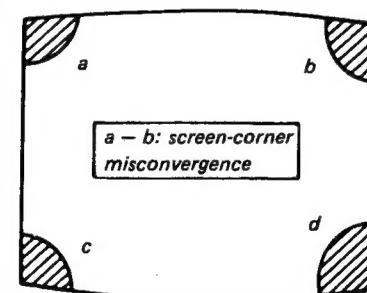
## (A) Y. BOW (RV1508)



## (C) H. AMP (RV1511)



## (D) Screen-corner Convergence



## 4-3. SCREEN and WHITE BALANCE

## (1) SCREEN ADJ.

1. Feed in a dot signal.
2. Set PIC CONTROL, BRT VR's to minimum.
3. Connect external power supply 170V DC to R, G, B cathode.
4. Adjust SCREEN (RV703) to the point where retrace glows faintly.

## (2) W/B ADJ.

1. Feed in a color bar.
2. Set: PIC, BRT: MAX  
COL : MIN
3. Adjust B, G DRIVE VR's to get white balance.
4. Set: PIC, COL: MIN  
BRT : CENTER  
Adjust SUB BRT (RV401) to the point where the arrow indicates.

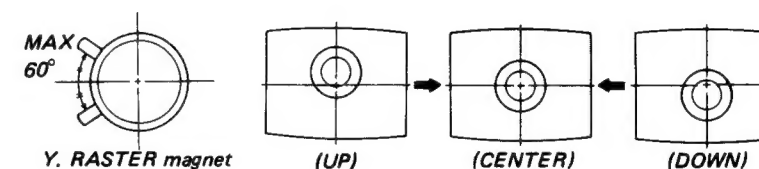
## 4-4. FOCUS (RV902)

Adjust FOCUS control for a best picture.

## 4-5. V. CENT ADJUSTMENT

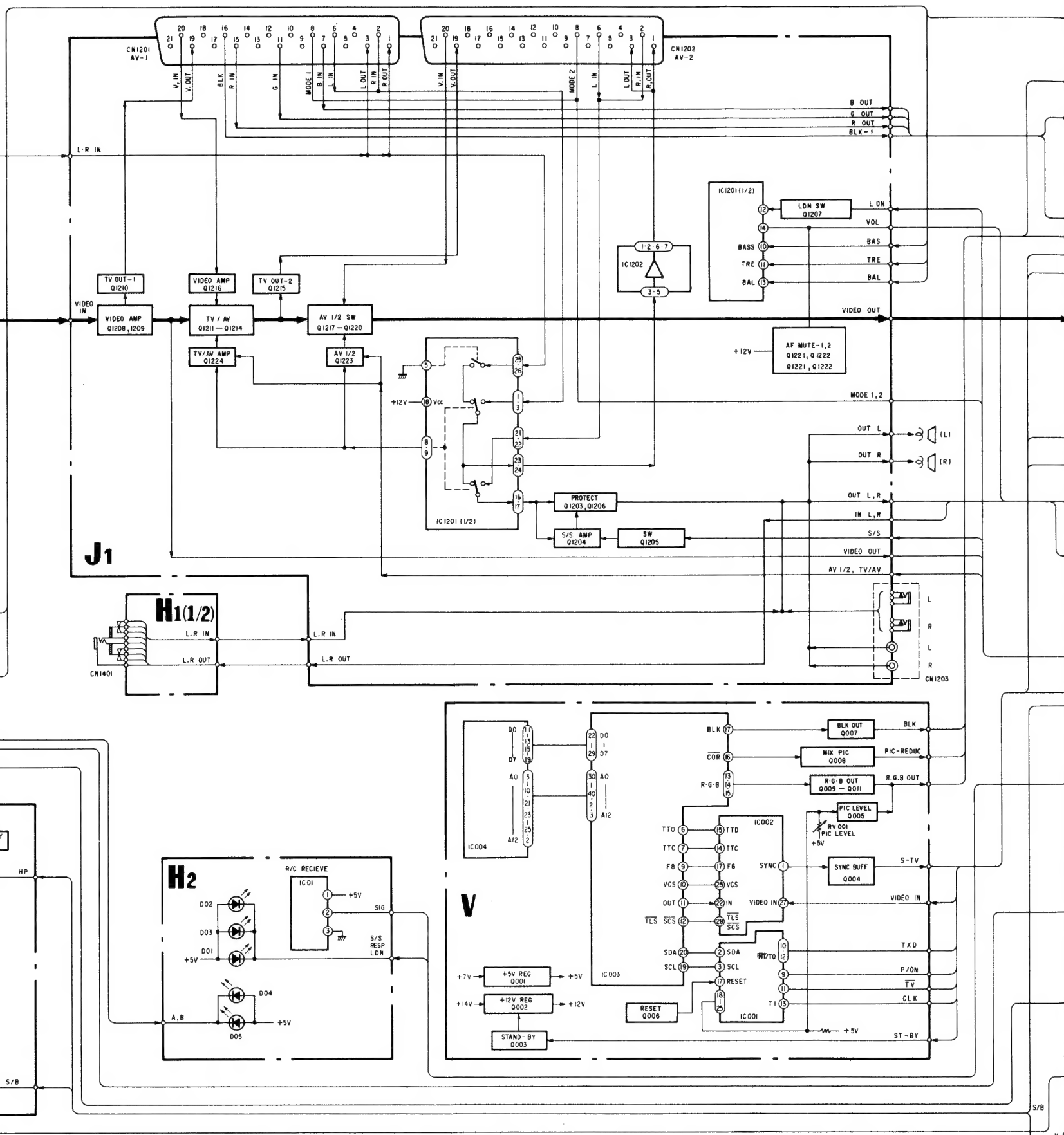
1. Before starting, perform H. SIZE, V. SIZE, V. LINE VR at center position.
2. Receive monoscope signal.
3. Adjust Y. RASTER magnet so that monoscope pattern is positioned at the center of screen.

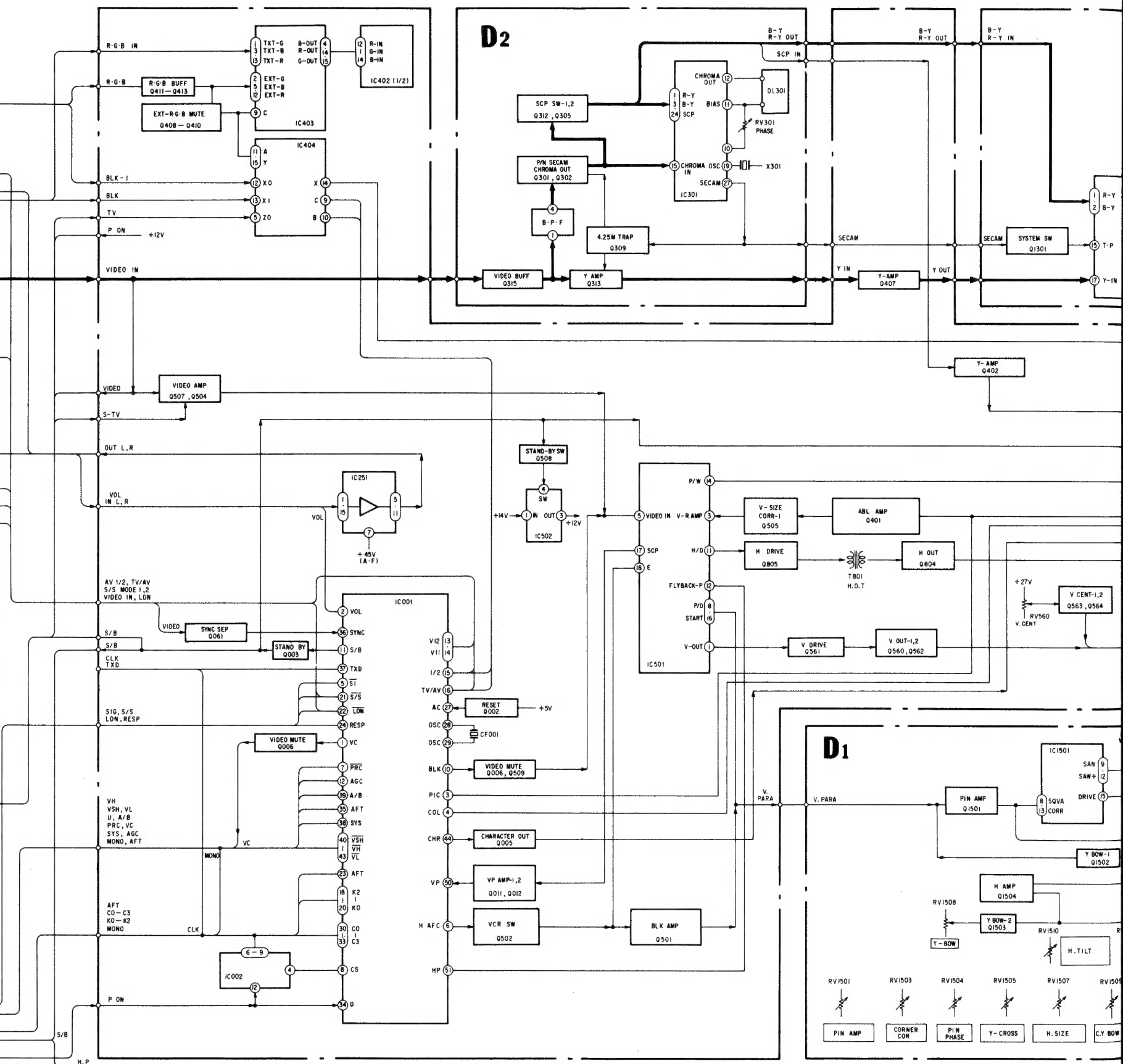
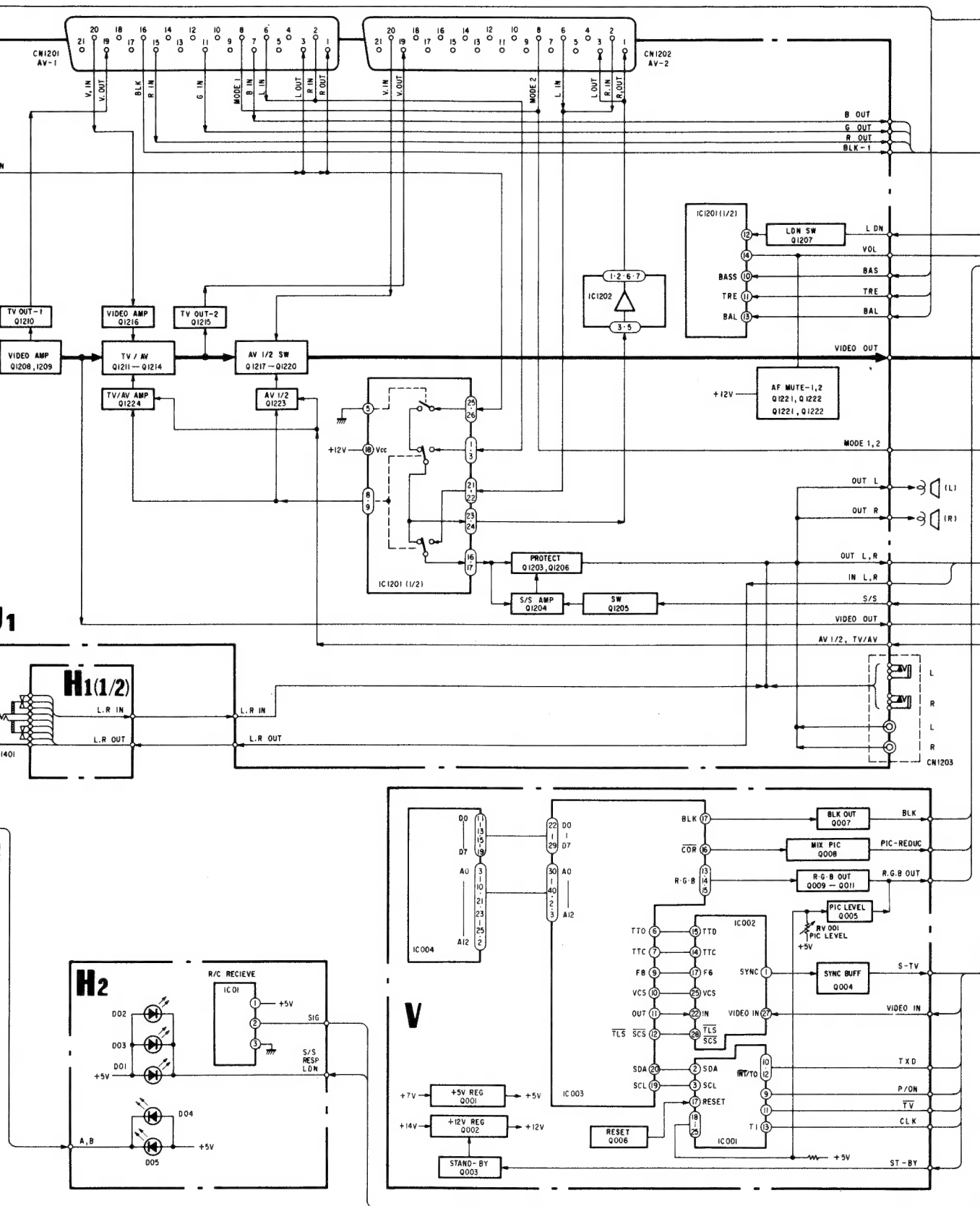
**Note:** The opening angle of Y. RASTER magnet should be within 60°.

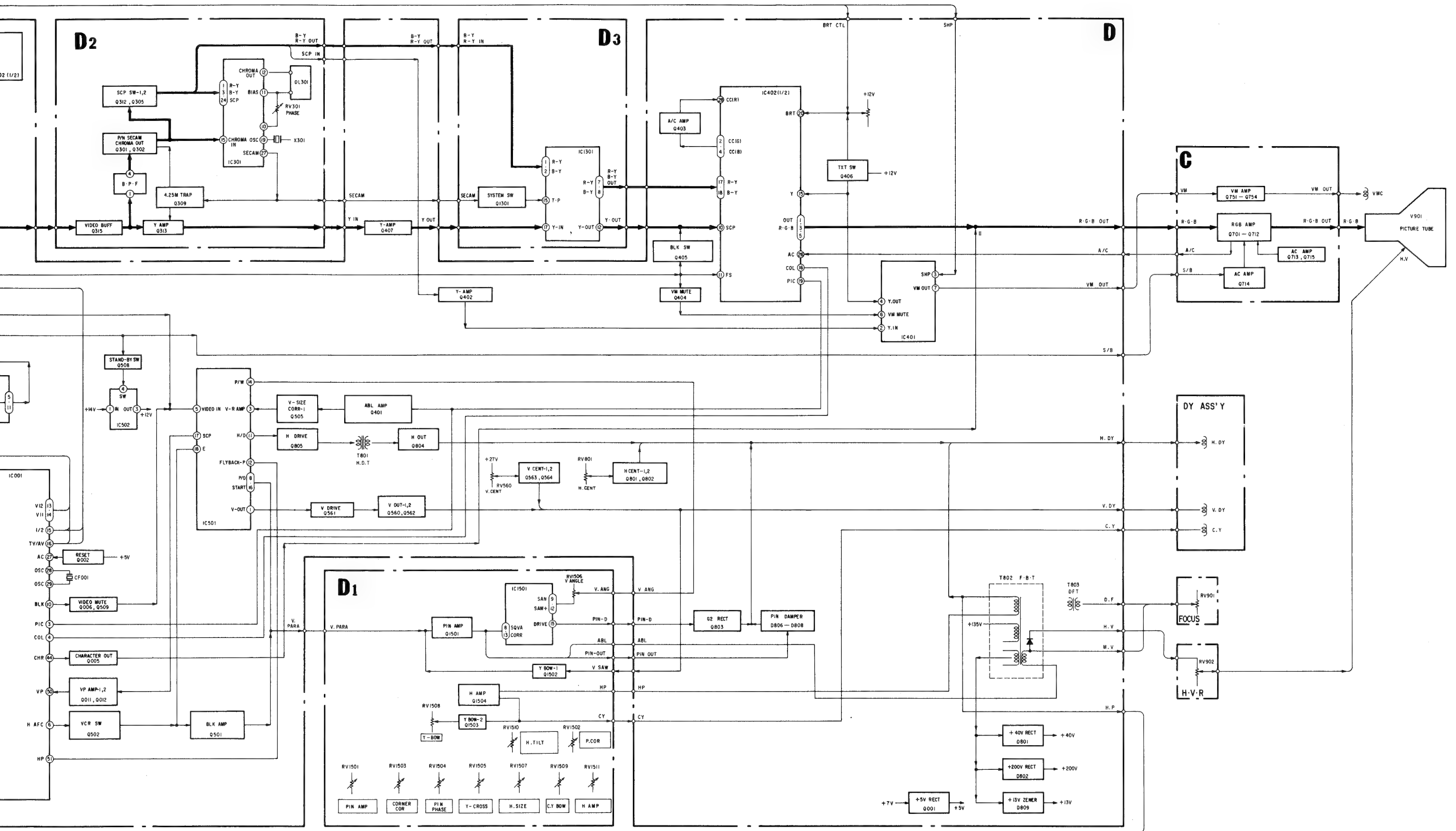


## SIMPLE ADJUSTMENT METHOD

1. Receive an air signal.
2. Set PIC, BRT, COL to MAX.
3. Set B, G DRIVE VR's to mechanical center.
4. Turn SCREEN VR fully to the left and right and adjust to the center of the range over which color does not change.





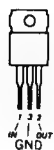




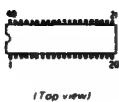
# SECTION 6

## SEMICONDUCTORS

AN78M12R



SAA5240A



(Top view)

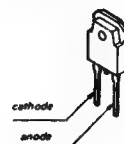
2SA1091  
2SA933S  
2SC1740  
2SC2551  
BF485-AMMO  
JA101  
JC501



2SD1497  
2SD1497-02  
2SD1497-06



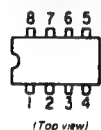
ERC26-15S  
GH3F  
V19E



S6344G

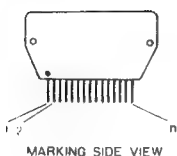


BA4558  
HA17558  
NJM4558D  
μPC4558C



(Top view)

STK4362



MARKING SIDE VIEW

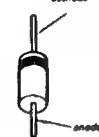
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2SC2785



2SD795A



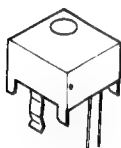
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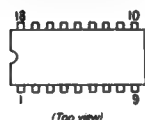
TLP581



BX1387



TDA2546A  
TDA2579  
TDA2595  
TDA4560  
TDA4565

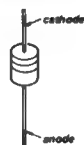


(Top view)

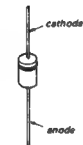
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2SC2688  
2SC2690A



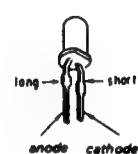
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1SS133  
1SS148



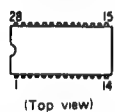
EQB01-13



TLR124

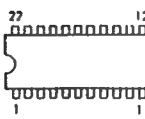


CX20199  
MAB8441P-T060  
SAA5230  
TC5564PL-15  
TC5565PL-15  
TDA3505  
TDA3505-V7  
TDA4555



(Top view)

TDA4940



(Top view)

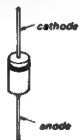
μPC574J



2SB734  
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2SC2959  
2SD773  
2SD774



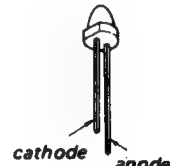
1N4148  
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ERD28-06S  
ES1F  
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HZ5.6EB2  
RGP10GPKG23  
RD12EB2  
RD12EN2  
RD13EB2  
RD3.6EB2  
RD3.9EN1  
RD3.9EN2  
RD39EB2  
RD5.1EN2  
RD5.6EB2  
RD5.6EN1  
RD5.6EN2  
RD5.6EN3  
RD6.2EN1  
RD6.2EN2  
RD6.8EN1  
RD7.5EN1  
RD7.5EN2  
HZ3.6EB2  
HZ39EB2



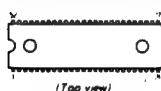
MC921



TLUR144

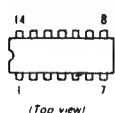


M50436-511SP  
M50436-515SP



(Top view)

M58655P  
TDA4944  
μPC1394C



(Top view)

2SA1048  
2SA1115  
2SC2458  
2SC2603  
2SC403SP  
DTA114ES  
DTA124ES  
DTA144ES  
DTC114ES  
DTC124ES  
DTC144ES

2SB740  
2SC1475  
2SC3504  
2SD788  
2SD789



2SC2026



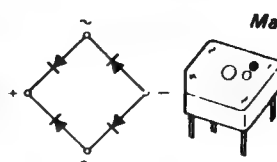
CTU-12S



RB406NH



S3WB60Z  
S3WB60ZS



Marking

## SECTION 7 EXPLODED VIEWS

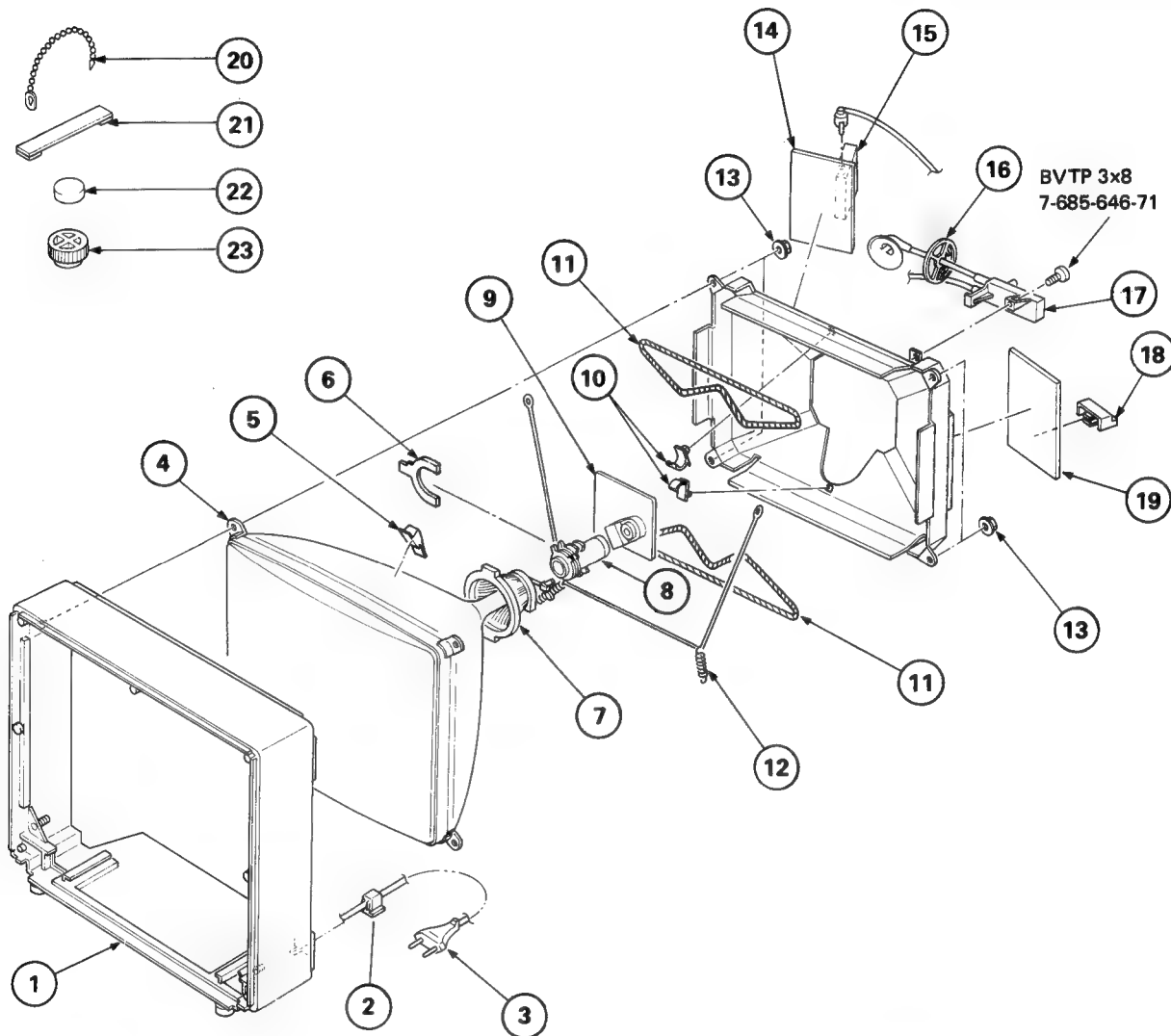
**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

### 7-1. CRT

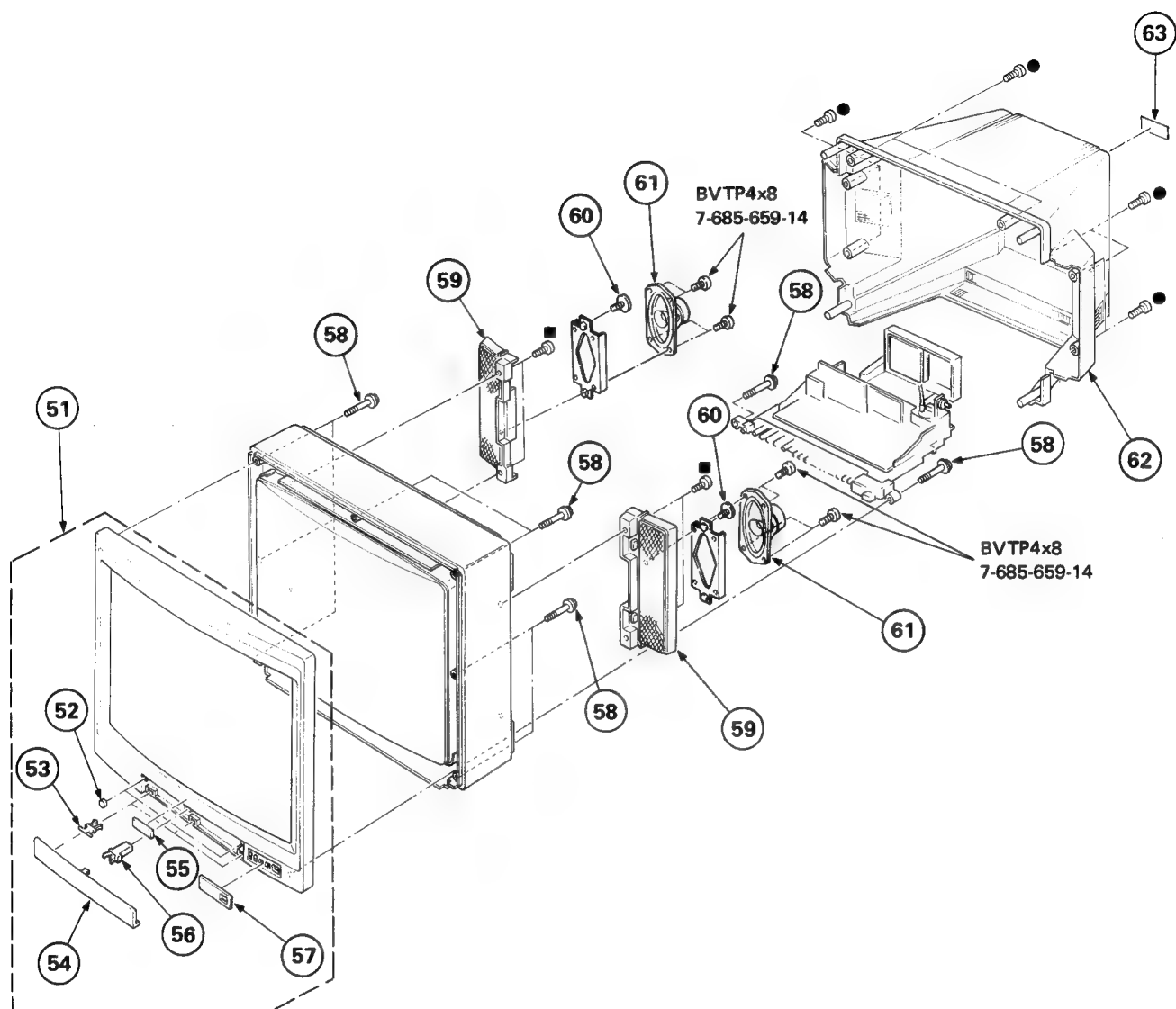


No.	Part No.	Description	Remark
1	4-381-118-01	CABINET	
2	$\Delta$ 4-022-115-01	HOLDER, AC CORD	
3	$\Delta$ 1-551-270-11	CORD, POWER	
4	$\Delta$ 8-736-653-05	CRT (A64JKJ60X)	
5	3-703-003-00	SPACER, DY	
6	1-452-146-21	MAGNET, BMC	
7	$\Delta$ 1-451-255-22	DEFLECTION YOKE (SY-164)	
8	$\Delta$ 1-452-391-11	NECK ASSY, CRT (NA305)	
9	*A-1330-706-A	C BOARD, COMPLETE	
10	*4-371-629-01	STOPPER, WIRE	
11	$\Delta$ 1-426-278-11	COIL, DEMAGNETIZATION	
12	4-303-774-XX	SPRING	

No.	Part No.	Description	Remark
13	4-373-210-01	NUT, SPECIAL	
14	*A-1296-140-A	A BOARD, COMPLETE	
15	$\Delta$ 1-463-523-11	TUNER, ET (UMF/VHF)(UV417)	
16	*4-369-234-01	HOLDER, HV CABLE	
17	$\Delta$ 1-228-544-11	RESISTOR ASSY, HIGH-VOLTAGE	
18	*4-375-709-01	COVER, FUSE	
19	*A-1245-329-A	F BOARD, COMPLETE	
20	4-308-870-00	CLIP, LEAD WIRE	
21	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
22	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
23	1-452-094-00	MAGNET, RTOATABLE DISK; 15MM $\phi$	

## 7-2. BEZEL

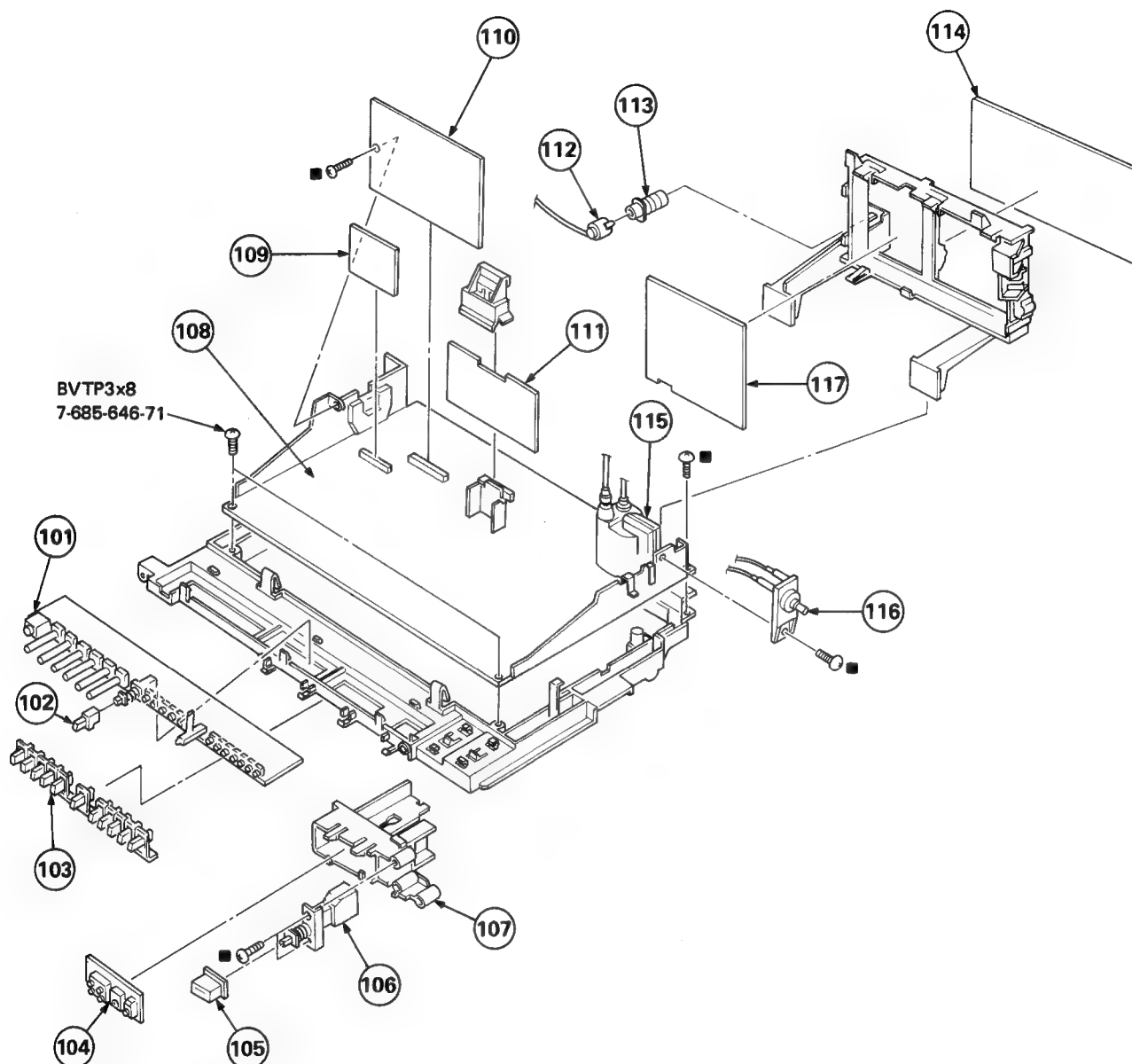
● : BVTP4x16      7-685-663-71  
■ : BVTP3x12      7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	X-4374-150-2	BEZEL ASSY (KV-27XRTD ONLY)	51-57	57	*4-380-653-01	WINDOW, ORNAMENTAL	
	X-4374-150-1	BEZEL ASSY (KV-27XRD ONLY)	51-57	58	4-319-520-00	SCREW, SPECIAL (+PW4X30)	
52	*4-314-871-00	CUSHION		59	X-4374-146-1	PANEL ASSY, SPEAKER	
53	3-662-365-00	SHAFT (S), DOOR		60	4-314-843-00	SCREW, TAPPING, +4X12	
54	4-381-111-21	DOOR (KV-27XRTD ONLY)		61	1-503-642-11	SPEAKER	
	4-381-111-11	DOOR (KV-27XRD ONLY)		62	4-381-116-01	COVER, REAR	
55	*4-374-115-01	EMBLEM, SONY		63	*4-382-044-01	LABEL (B), COMBINATION (KV-27XRTD ONLY)	
56	4-374-714-01	CATCH, PUSH			*4-380-693-01	LABEL (B), COMBINATION (KV-27XRD ONLY)	

### 7-3. CHASSIS

■ : BVTP3x12 7-685-648-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
101	*1-617-747-11	H1 BOARD		110	*A-1345-612-A	D2 BOARD, COMPLETE	
102	4-376-524-01	BUTTON, (STEREO/MONO)		111	*A-1340-808-A	D1 BOARD, COMPLETE	
103	4-380-644-01	BUTTON (COMPLETE), MULTI		112	*1-558-539-21	CABLE, P-P	
104	*1-617-746-11	H2 BOARD		113	1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)	
105	4-380-624-01	BUTTON, POWER		114	*A-1371-210-A	J1 BOARD, COMPLETE	
106	△1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)		115	△1-439-332-42	TRANSFORMER ASSY, FLYBACK	
107	*4-380-623-01	BRACKET, POWER SWITCH		116	△1-237-280-11	RESISTOR ASSY, HIGH-VOLTAGE	
108	*A-1345-614-A	D BOARD, COMPLETE		117	*A-1325-023-A	V BOARD, COMPLETE (KV-27XRTD ONLY)	
109	*1-618-128-11	D3 BOARD					

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

# F

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

- When indicating parts by reference number, please include the board name.

- COILS  
• MMH : mH, UH :  $\mu$ H

—23—

## KV-27XRD/27XRTD

RM-664

F

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TRANSISTOR</u>				<u>TRANSISTOR</u>			
Q601	8-729-195-82	TRANSISTOR 2SC2958		R659	1-215-865-11	METAL OXIDE 220 5% 1W	F
Q602	8-729-301-00	TRANSISTOR 2SD1497-02		R660	1-216-370-11	METAL OXIDE 1.2 5% 2W	F
	4-365-216-00	SPACER, MICA; Q602		R662	1-215-776-91	METAL 39K 5% 1/6W	
	*4-368-683-01	SPRING; Q602		R663	1-215-764-91	METAL 12K 5% 1/6W	
Q603	8-729-178-54	TRANSISTOR 2SC2785		R664	1-215-200-00	METAL 100K 5% 1/4W	
Q651	8-729-109-53	TRANSISTOR 2SD795A		R665	1-215-754-91	METAL 4.7K 5% 1/6W	
Q652	8-729-178-54	TRANSISTOR 2SC2785		R666	1-215-144-00	METAL 470 5% 1/4W	
Q653	8-729-178-54	TRANSISTOR 2SC2785		R667	1-215-126-81	METAL 82 5% 1/4W	
<u>RESISTOR</u>				R668	1-215-778-91	METAL 47K 5% 1/6W	
				R669	1-215-752-91	METAL 3.9K 5% 1/6W	
R601	1-217-328-11	WIREWOUND 2.7 10% 7W	F	R670	1-215-746-91	METAL 2.2K 5% 1/6W	
R602	1-244-945-91	CARBON 1M 5% 1/2W		<u>VARIABLE RESISTOR</u>			
R603	1-205-758-11	CEMENTED 100 10% 10W	F	RV651	1-230-627-11	RES, ADJ, CARBON 1K	
R604	1-247-289-11	CARBON 8.2M 5% 1W		RV652	1-230-521-11	RES, ADJ, METAL GLAZE 2.2K	
R605	1-215-798-91	METAL 330K 5% 1/6W		<u>TRANSFORMER</u>			
R606	1-215-770-91	METAL 22K 5% 1/6W		T601	1-421-776-11	LFT	
R608	1-215-746-91	METAL 2.2K 5% 1/6W		T602	1-421-592-00	TRANSFORMER, FERRITE	
R609	1-215-871-11	METAL OXIDE 2.2K 5% 1W	F	T603	1-437-079-00	TRANSFORMER, HORIZONTAL DRIVE	
R611	1-215-774-91	METAL 33K 5% 1/6W		T605	1-421-733-21	SRT	
R612	1-215-904-51	METAL OXIDE 100K 5% 2W	F	T606	1-421-866-11	LFT	
R613	1-215-872-11	METAL OXIDE 3.3K 5% 1W	F	<u>THERMISTOR</u>			
R614	1-215-894-11	METAL OXIDE 2.2K 5% 2W	F	TH601	1-800-944-00	THERMISTOR TH-4700	
R615	1-205-793-00	CEMENTED 30K 10% 10W		TH651	1-800-944-00	THERMISTOR TH-4700	
R616	1-215-772-91	METAL 27K 5% 1/6W		THP601	1-806-387-11	THERMISTOR (POSITIVE)	
R621	1-215-762-91	METAL 10K 5% 1/6W		*****			
R622	1-215-770-91	METAL 22K 5% 1/6W		*A-1296-140-A	A BOARD, COMPLETE		
R623	1-215-162-00	METAL 2.7K 5% 1/4W		*****			
R624	1-215-754-91	METAL 4.7K 5% 1/6W		*4-368-692-03	CASE (MAIN), SHIELD		
R625	1-215-786-91	METAL 100K 5% 1/6W		*4-368-693-02	CASE (UPPER LID), SHIELD		
R626	1-215-150-00	METAL 820 5% 1/4W		*4-368-694-02	CASE (BOTTOM LID), SHIELD		
R627	1-215-722-91	METAL 220 5% 1/6W		<u>CONNECTOR</u>			
R628	1-215-796-91	METAL 270K 5% 1/6W		A1	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
R629	1-215-758-91	METAL 6.8K 5% 1/6W		A2	*1-564-883-11	PLUG, CONNECTOR 6P	
R630	1-215-112-00	METAL 22 5% 1/4W		A3	*1-564-890-11	PLUG, CONNECTOR 13P	
R631	1-205-728-00	CEMENTED 47 10% 7W		<u>CAPACITOR</u>			
R632	1-217-192-00	WIREWOUND 0.22 10% 2W	F	C101	1-110-175-81	MYLAR 0.1MF 10% 100V	
R633	1-215-794-91	METAL 220K 5% 1/6W		C102	1-123-356-00	ELECT 10MF 20% 16V	
R634	1-215-778-91	METAL 47K 5% 1/6W		C103	1-101-006-00	CERAMIC 0.047MF 50V	
R636	1-215-788-91	METAL 120K 5% 1/6W		C104	1-123-356-00	ELECT 10MF 20% 16V	
R637	1-215-770-91	METAL 22K 5% 1/6W		C105	1-123-356-00	ELECT 10MF 20% 16V	
R638	1-215-430-00	METAL 2.4K 1% 1/6W		C106	1-123-323-00	ELECT 470MF 20% 16V	
R639	1-215-754-91	METAL 4.7K 5% 1/6W		C107	1-123-330-00	ELECT 22MF 20% 16V	
R640	1-215-192-00	METAL 47K 5% 1/4W		C108	1-110-173-81	MYLAR 0.068MF 10% 100V	
R641	1-202-613-00	SOLID 47K 10% 1/2W		C109	1-110-173-81	MYLAR 0.068MF 10% 100V	
R651	1-216-477-11	METAL OXIDE 270 5% 3W	F	C110	1-102-963-00	CERAMIC 33PF 5% 50V	
R652	1-216-430-11	METAL OXIDE 390 5% 1W	F	C111	1-123-318-00	ELECT 33MF 20% 16V	
R653	1-215-754-91	METAL 4.7K 5% 1/6W					
R654	1-216-464-11	METAL OXIDE 18K 5% 2W	F				
R655	1-215-794-91	METAL 220K 5% 1/6W					
R656	1-215-778-91	METAL 47K 5% 1/6W					
R657	1-215-698-91	METAL 22 5% 1/6W					

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C112	1-102-527-00	CERAMIC 82PF	5% 50V	C171	1-123-318-00	ELECT 33MF	20% 16V
C113	1-102-510-00	CERAMIC 12PF	5% 50V	C172	1-123-379-00	ELECT 0.47MF	20% 50V
C115	1-102-852-00	CERAMIC 47PF	5% 50V	C173	1-123-379-00	ELECT 0.47MF	20% 50V
C116	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C174	1-110-190-81	MYLAR 0.01MF	10% 400V
C117	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C175	1-110-190-81	MYLAR 0.01MF	10% 400V
C118	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C176	1-123-332-00	ELECT 47MF	20% 16V
C119	1-110-175-81	MYLAR 0.1MF	10% 100V	C177	1-123-332-00	ELECT 47MF	20% 16V
C120	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C179	1-110-179-81	MYLAR 0.22MF	10% 100V
C122	1-123-330-00	ELECT 22MF	20% 16V	C180	1-110-179-81	MYLAR 0.22MF	10% 100V
C123	1-101-361-00	CERAMIC 150PF	5% 50V	C182	1-123-307-00	ELECT 100MF	20% 10V
C124	1-104-069-00	POLYSTYRENE 470PF	5% 50V	C183	1-101-361-00	CERAMIC 150PF	5% 50V
C125	1-101-361-00	CERAMIC 150PF	5% 50V	C184	1-102-973-00	CERAMIC 100PF	5% 50V
C126	1-123-318-00	ELECT 33MF	20% 16V	C185	1-103-741-00	POLYSTYRENE 0.0047MF	5% 50V
C127	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C186	1-123-356-00	ELECT 10MF	20% 16V
C128	1-101-004-00	CERAMIC 0.01MF	50V	C187	1-110-190-81	MYLAR 0.01MF	10% 400V
C129	1-101-004-00	CERAMIC 0.01MF	50V	C188	1-102-125-00	CERAMIC 0.0047MF	10% 50V
C130	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C189	1-123-369-00	ELECT 4.7MF	20% 50V
C131	1-123-381-00	ELECT 2.2MF	20% 50V	C190	1-110-190-81	MYLAR 0.01MF	10% 400V
C132	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C191	1-102-816-00	CERAMIC 120PF	5% 50V
C133	1-102-125-00	CERAMIC 0.0047MF	10% 50V	C192	1-161-319-00	CERAMIC 470PF	10% 50V
C134	1-102-125-00	CERAMIC 0.0047MF	10% 50V	<u>FILTER</u>			
C135	1-102-525-00	CERAMIC 68PF	5% 50V	CD151	1-404-501-00	DISCRIMINATOR, CERAMIC	
C136	1-102-525-00	CERAMIC 68PF	5% 50V	CF101	1-527-840-00	FILTER, CERAMIC	
C137	1-102-125-00	CERAMIC 0.0047MF	10% 50V	CF102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	
C138	1-123-380-00	ELECT 1MF	20% 50V	CF151	1-527-839-00	FILTER, CERAMIC	
C139	1-102-125-00	CERAMIC 0.0047MF	10% 50V	SNF101	1-404-438-00	FILTER, SAW	
C140	1-102-125-00	CERAMIC 0.0047MF	10% 50V	<u>DIODE</u>			
C141	1-123-318-00	ELECT 33MF	20% 16V	D101	8-719-911-19	DIODE 1SS119	
C142	1-102-525-00	CERAMIC 68PF	5% 50V	D102	8-719-911-19	DIODE 1SS119	
C143	1-102-934-00	CERAMIC 1PF	0.25PF 50V	D103	8-719-102-71	DIODE RD5.6E-N2	
C144	1-123-609-00	ELECT 0.33MF	20% 50V	D104	8-719-911-19	DIODE 1SS119	
C145	1-102-961-00	CERAMIC 27PF	5% 50V	D105	8-719-911-19	DIODE 1SS119	
C146	1-123-380-00	ELECT 1MF	20% 50V	D108	8-719-911-19	DIODE 1SS119	
C147	1-130-072-00	FILM 0.022MF	2% 100V	D109	8-719-911-19	DIODE 1SS119	
C148	1-110-186-81	MYLAR 0.0047MF	10% 400V	D110	8-719-911-19	DIODE 1SS119	
C150	1-102-520-00	CERAMIC 39PF	5% 50V	D111	8-719-911-19	DIODE 1SS119	
C151	1-101-004-00	CERAMIC 0.01MF	50V	D112	8-719-911-19	DIODE 1SS119	
C152	1-101-004-00	CERAMIC 0.01MF	50V	D152	8-719-911-19	DIODE 1SS119	
C153	1-123-356-00	ELECT 10MF	20% 16V	D153	8-719-911-19	DIODE 1SS119	
C154	1-101-004-00	CERAMIC 0.01MF	50V	D154	8-719-911-19	DIODE 1SS119	
C155	1-123-332-00	ELECT 47MF	20% 16V	<u>IC</u>			
C156	1-123-306-00	ELECT 47MF	20% 10V	IC101	8-759-909-08	IC TDA3541	
C157	1-123-306-00	ELECT 47MF	20% 10V	IC102	8-759-909-54	IC TDA2546A	
C158	1-123-379-00	ELECT 0.47MF	20% 50V	IC103	6-066-720-50	IC TDA2595	
C159	1-102-816-00	CERAMIC 120PF	5% 50V	IC151	8-759-007-54	IC TDA4940	
C160	1-102-125-00	CERAMIC 0.0047MF	10% 50V	IC152	8-759-007-55	IC TDA4944	
C161	1-123-318-00	ELECT 33MF	20% 16V	<u>COIL</u>			
C164	1-108-620-91	MYLAR 0.0033MF	10% 100V	L102	1-404-476-00	COIL, IF	
C165	1-108-620-91	MYLAR 0.0033MF	10% 100V	L103	1-408-399-00	MICRO INDUCTOR 1.5UH	
C167	1-108-620-91	MYLAR 0.0033MF	10% 100V	L104	1-408-406-00	MICRO INDUCTOR 5.6UH	
C168	1-108-620-91	MYLAR 0.0033MF	10% 100V	L105	1-404-477-00	COIL, IF	
C169	1-123-356-00	ELECT 10MF	20% 16V				
C170	1-123-356-00	ELECT 10MF	20% 16V				



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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
L106	1-404-493-00	COIL		R131	1-215-762-91	METAL 10K 5% 1/6W	
L107	1-404-493-00	COIL		R134	1-215-770-91	METAL 22K 5% 1/6W	
L108	1-404-691-11	VIFT		R135	1-215-776-91	METAL 39K 5% 1/6W	
L109	1-408-409-00	MICRO INDUCTOR 10UH		R136	1-215-770-91	METAL 22K 5% 1/6W	
L110	1-408-406-00	MICRO INDUCTOR 5.6UH		R137	1-215-770-91	METAL 22K 5% 1/6W	
L111	1-404-493-00	COIL		R141	1-215-766-91	METAL 15K 5% 1/6W	
L113	1-408-226-00	MICRO INDUCTOR 82UH		R142	1-215-786-91	METAL 100K 5% 1/6W	
L115	1-408-405-00	MICRO INDUCTOR 4.7UH		R143	1-215-786-91	METAL 100K 5% 1/6W	
L116	1-408-406-00	MICRO INDUCTOR 5.6UH		R145	1-215-752-91	METAL 3.9K 5% 1/6W	
L117	1-408-428-00	MICRO INDUCTOR 390UH		R146	1-215-184-00	METAL 22K 5% 1/4W	
L161	1-408-429-00	MICRO INDUCTOR 470UH		R150	1-215-726-91	METAL 330 5% 1/6W	
L171	1-408-602-21	MICRO INDUCTOR 8.2UH		R151	1-215-732-91	METAL 560 5% 1/6W	
L172	1-408-421-00	MICRO INDUCTOR 100UH		R152	1-215-776-91	METAL 39K 5% 1/6W	
<u>TRANSISTOR</u>				R153	1-215-728-91	METAL 390 5% 1/6W	
Q101	8-729-178-54	TRANSISTOR 2SC2785		R154	1-215-714-91	METAL 100 5% 1/6W	
Q102	8-729-105-47	TRANSISTOR 2SC2026-L		R155	1-215-770-91	METAL 22K 5% 1/6W	
Q105	8-729-117-54	TRANSISTOR 2SA1175		R156	1-215-784-91	METAL 82K 5% 1/6W	
Q106	8-729-900-61	TRANSISTOR DTA114ES		R157	1-215-726-91	METAL 330 5% 1/6W	
Q107	8-729-900-61	TRANSISTOR DTA114ES		R158	1-215-726-91	METAL 330 5% 1/6W	
Q108	8-729-900-61	TRANSISTOR DTA114ES		R159	1-215-754-91	METAL 4.7K 5% 1/6W	
Q109	8-729-900-61	TRANSISTOR DTA114ES		R160	1-215-754-91	METAL 4.7K 5% 1/6W	
Q151	8-729-178-54	TRANSISTOR 2SC2785		R161	1-215-754-91	METAL 4.7K 5% 1/6W	
Q152	8-729-178-54	TRANSISTOR 2SC2785		R162	1-215-754-91	METAL 4.7K 5% 1/6W	
Q153	8-729-178-54	TRANSISTOR 2SC2785		R163	1-215-738-91	METAL 1K 5% 1/6W	
Q154	8-729-900-89	TRANSISTOR DTC144ES		R171	1-215-766-91	METAL 15K 5% 1/6W	
Q157	8-729-900-89	TRANSISTOR DTC144ES		R172	1-215-128-00	METAL 100 5% 1/4W	
Q158	8-729-900-89	TRANSISTOR DTC144ES		R174	1-215-788-91	METAL 120K 5% 1/6W	
Q175	8-729-178-54	TRANSISTOR 2SC2785		R175	1-215-764-91	METAL 12K 5% 1/6W	
<u>RESISTOR</u>				R176	1-215-786-91	METAL 100K 5% 1/6W	
R101	1-215-762-91	METAL 10K 5% 1/6W		R178	1-215-762-91	METAL 10K 5% 1/6W	
R105	1-215-762-91	METAL 10K 5% 1/6W		R179	1-215-762-91	METAL 10K 5% 1/6W	
R106	1-215-750-91	METAL 3.3K 5% 1/6W		R180	1-215-738-91	METAL 1K 5% 1/6W	
R107	1-215-164-00	METAL 3.3K 5% 1/4W		R181	1-215-740-91	METAL 1.2K 5% 1/6W	
R108	1-215-798-91	METAL 330K 5% 1/6W		R182	1-215-746-91	METAL 2.2K 5% 1/6W	
R109	1-215-746-91	METAL 2.2K 5% 1/6W		R183	1-215-738-91	METAL 1K 5% 1/6W	
R110	1-215-746-91	METAL 2.2K 5% 1/6W		R184	1-215-736-91	METAL 820 5% 1/6W	
R111	1-215-754-91	METAL 4.7K 5% 1/6W		R185	1-215-726-91	METAL 330 5% 1/6W	
R112	1-215-744-91	METAL 1.8K 5% 1/6W		R188	1-215-766-91	METAL 15K 5% 1/6W	
R113	1-215-752-91	METAL 3.9K 5% 1/6W		R191	1-215-726-91	METAL 330 5% 1/6W	
R114	1-215-722-91	METAL 220 5% 1/6W		R192	1-215-726-91	METAL 330 5% 1/6W	
R115	1-215-750-91	METAL 3.3K 5% 1/6W		R193	1-215-714-91	METAL 100 5% 1/6W	
R116	1-215-730-91	METAL 470 5% 1/6W		<u>VARIABLE RESISTOR</u>			
R117	1-215-710-91	METAL 68 5% 1/6W		RV101	1-230-633-51	RES, ADJ, CARBON 47K	
R118	1-215-724-91	METAL 270 5% 1/6W		RV151	1-230-632-11	RES, ADJ, CARBON 33K	
R120	1-215-778-91	METAL 47K 5% 1/6W		RV171	1-230-633-51	RES, ADJ, CARBON 47K	
R121	1-215-742-91	METAL 1.5K 5% 1/6W					
R122	1-215-762-91	METAL 10K 5% 1/6W					
R125	1-215-736-91	METAL 820 5% 1/6W					
R126	1-215-736-91	METAL 820 5% 1/6W					
R127	1-215-736-91	METAL 820 5% 1/6W					
R129	1-215-810-91	METAL 1M 5% 1/6W					

A

V

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>TUNER</u>							
TU101	1-463-523-11	TUNER, ET (UHF/VHF) (UV417)					
*****							
*A-1325-023-A V BOARD, COMPLETE (KV-27XRTD ONLY)							
*****							
<u>CAPACITOR</u>							
C001	1-123-333-00	ELECT	100MF	20%	16V		
C002	1-123-308-00	ELECT	220MF	20%	6.3V		
C003	1-123-309-00	ELECT	330MF	20%	10V		
C004	1-123-332-00	ELECT	47MF	20%	16V		
C005	1-123-333-00	ELECT	100MF	20%	16V		
C006	1-123-321-00	ELECT	220MF	20%	16V		
C007	1-123-356-00	ELECT	10MF	20%	16V		
C008	1-102-951-00	CERAMIC	15PF	5%	50V		
C009	1-102-074-00	CERAMIC	0.001MF	10%	50V		
C010	1-102-824-21	CERAMIC	470PF	5%	50V		
C011	1-110-182-81	MYLAR	0.022MF	10%	250V		
C012	1-102-980-00	CERAMIC	270PF	5%	50V		
C013	1-102-973-00	CERAMIC	100PF	5%	50V		
C014	1-102-951-00	CERAMIC	15PF	5%	50V		
C015	1-102-961-00	CERAMIC	27PF	5%	50V		
C016	1-110-190-81	MYLAR	0.01MF	10%	400V		
C017	1-110-171-81	MYLAR	0.047MF	10%	100V		
C018	1-102-953-00	CERAMIC	18PF	5%	50V		
C019	1-110-171-81	MYLAR	0.047MF	10%	100V		
C020	1-102-978-00	CERAMIC	220PF	5%	50V		
C021	1-110-173-81	MYLAR	0.068MF	10%	100V		
C022	1-102-961-00	CERAMIC	27PF	5%	50V		
C023	1-102-961-00	CERAMIC	27PF	5%	50V		
C024	1-123-307-00	ELECT	100MF	20%	10V		
C025	1-123-306-00	ELECT	47MF	20%	10V		
C027	1-102-820-00	CERAMIC	330PF	5%	50V		
C028	1-102-116-00	CERAMIC	680PF	10%	50V		
C029	1-123-369-00	ELECT	4.7MF	20%	25V		
C051	1-110-175-81	MYLAR	0.1MF	10%	100V		
C052	1-110-175-81	MYLAR	0.1MF	10%	100V		
C053	1-110-175-81	MYLAR	0.1MF	10%	100V		
C054	1-110-175-81	MYLAR	0.1MF	10%	100V		
C055	1-110-175-81	MYLAR	0.1MF	10%	100V		
C056	1-110-175-81	MYLAR	0.1MF	10%	100V		
C058	1-123-356-00	ELECT	10MF	20%	16V		
<u>TRIMMER</u>							
CT001	1-141-181-11	CAP, TRIMMER					
<u>DIODE</u>							
D001	8-719-100-35	DIODE RD5.6E-B2		D008	8-719-102-78	DIODE RD6.8E-N2	
D002	8-719-100-68	DIODE RD13E-B2		D009	8-719-102-71	DIODE RD5.6E-N2	
D003	8-719-911-19	DIODE 1SS119		<u>IC</u>			
D004	8-719-100-19	DIODE RD3.6E-B2		IC001	8-759-933-45	IC MAB8441P-T060	
				IC002	8-759-918-54	IC SAA5230	
				IC003	8-759-918-56	IC SAA5240A	
				*1-526-722-00 SOCKET, IC 40P; IC003			
				IC004	8-759-206-27	IC TC5564PL-15	
				<u>COIL</u>			
				L001	1-408-411-00	MICRO INDUCTOR 15UH	
				L002	1-410-328-11	MICRO INDUCTOR 10UH	
				<u>TRANSISTOR</u>			
				Q001	8-729-109-53	TRANSISTOR 2SD795A	
				Q002	8-729-805-13	TRANSISTOR 2SC1475-13	
				Q003	8-729-178-54	TRANSISTOR 2SC2785	
				Q004	8-729-178-54	TRANSISTOR 2SC2785	
				Q005	8-729-805-13	TRANSISTOR 2SC1475-13	
				Q006	8-729-178-54	TRANSISTOR 2SC2785	
				Q007	8-729-178-54	TRANSISTOR 2SC2785	
				Q008	8-729-178-54	TRANSISTOR 2SC2785	
				Q009	8-729-117-54	TRANSISTOR 2SA1175	
				Q010	8-729-117-54	TRANSISTOR 2SA1175	
				Q011	8-729-117-54	TRANSISTOR 2SA1175	
				Q012	8-729-900-89	TRANSISTOR DTC144ES	
				<u>RESISTOR</u>			
				R001	1-247-745-11	CARBON	330 5% 1/2W
				R002	1-215-762-91	METAL	10K 5% 1/6W
				R003	1-215-778-91	METAL	47K 5% 1/6W
				R004	1-215-867-00	METAL OXIDE	470 5% 1W F
				R005	1-215-714-91	METAL	100 5% 1/6W
				R006	1-215-738-91	METAL	1K 5% 1/6W
				R007	1-215-714-91	METAL	100 5% 1/6W
				R008	1-215-726-91	METAL	330 5% 1/6W
				R009	1-215-780-91	METAL	56K 5% 1/6W
				R011	1-215-754-91	METAL	4.7K 5% 1/6W
				R012	1-215-754-91	METAL	4.7K 5% 1/6W
				R013	1-215-714-91	METAL	100 5% 1/6W
				R014	1-215-714-91	METAL	100 5% 1/6W
				R015	1-215-810-91	METAL	1M 5% 1/6W
				R016	1-215-744-91	METAL	1.8K 5% 1/6W
				R017	1-215-738-91	METAL	1K 5% 1/6W
				R018	1-215-754-91	METAL	4.7K 5% 1/6W
				R019	1-215-730-91	METAL	470 5% 1/6W
				R020	1-215-756-91	METAL	5.6K 5% 1/6W
				R021	1-215-746-91	METAL	2.2K 5% 1/6W
				R022	1-215-746-91	METAL	2.2K 5% 1/6W
				R023	1-215-738-91	METAL	1K 5% 1/6W
				R024	1-215-746-91	METAL	2.2K 5% 1/6W
				R025	1-215-754-91	METAL	4.7K 5% 1/6W

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R026	1-215-762-91	METAL 10K 5% 1/6W		C708	1-102-116-00	CERAMIC 680PF 10% 50V	
R027	1-215-702-91	METAL 33 5% 1/6W		C709	1-102-116-00	CERAMIC 680PF 10% 50V	
R028	1-215-702-91	METAL 33 5% 1/6W		C710	1-102-116-00	CERAMIC 680PF 10% 50V	
R029	1-215-702-91	METAL 33 5% 1/6W		C713	1-102-953-00	CERAMIC 18PF 5% 50V	
R030	1-215-130-00	METAL 120 5% 1/4W		C714	1-102-947-00	CERAMIC 10PF 5% 50V	
R031	1-215-130-00	METAL 120 5% 1/4W		C715	1-102-947-00	CERAMIC 10PF 5% 50V	
R032	1-215-130-00	METAL 120 5% 1/4W		C716	1-123-382-00	ELECT 3.3MF 20% 50V	
R033	1-215-712-91	METAL 82 5% 1/6W		C717	1-123-356-00	ELECT 10MF 20% 16V	
R034	1-215-738-91	METAL 1K 5% 1/6W		C718	1-101-006-00	CERAMIC 0.047MF 50V	
R037	1-215-714-91	METAL 100 5% 1/6W		C719	1-102-963-00	CERAMIC 33PF 5% 50V	
R038	1-215-736-91	METAL 820 5% 1/6W		C720	1-102-963-00	CERAMIC 33PF 5% 50V	
R040	1-215-754-91	METAL 4.7K 5% 1/6W		C721	1-102-963-00	CERAMIC 33PF 5% 50V	
R041	1-215-730-91	METAL 470 5% 1/6W		C722	1-110-175-81	MYLAR 0.1MF 10% 100V	
R043	1-215-746-91	METAL 2.2K 5% 1/6W		C751	1-101-361-00	CERAMIC 150PF 5% 50V	
R044	1-215-730-91	METAL 470 5% 1/6W		C752	1-108-617-91	MYLAR 0.0018MF 10% 100V	
R045	1-215-738-91	METAL 1K 5% 1/6W		C753	1-110-190-81	MYLAR 0.01MF 10% 400V	
R046	1-215-690-91	METAL 10 5% 1/6W		C754	1-102-980-00	CERAMIC 270PF 5% 50V	
R047	1-215-778-91	METAL 47K 5% 1/6W		C757	1-110-175-81	MYLAR 0.1MF 10% 100V	
<u>VARIABLE RESISTOR</u>				C759	1-123-356-00	ELECT 10MF 20% 50V	
RV001	1-230-628-11	RES, ADJ, CARBON 2.2K		C760	1-123-382-00	ELECT 33MF 20% 50V	
<u>CONNECTOR</u>				C761	1-101-006-00	CERAMIC 0.047MF 50V	
V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C762	1-110-190-81	MYLAR 0.01MF 10% 400V	
V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		<u>DIODE</u>			
V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		D701	8-719-911-19	DIODE 1SS119	
V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		D702	8-719-911-19	DIODE 1SS119	
V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		D703	8-719-911-19	DIODE 1SS119	
<u>CRYSTAL</u>				D704	8-719-911-19	DIODE 1SS119	
X001	1-567-162-00	OSCILLATOR, CRYSTAL		D705	8-719-911-19	DIODE 1SS119	
X002	1-567-495-11	OSCILLATOR, CRYSTAL		D706	8-719-911-19	DIODE 1SS119	
X003	1-567-192-11	OSCILLATOR, CERAMIC		D708	8-719-911-19	DIODE 1SS119	
*****				D709	8-719-911-19	DIODE 1SS119	
*A-1330-706-A C BOARD, COMPLETE				D710	8-719-911-19	DIODE 1SS119	
*****				<u>JACK</u>			
<u>CONNECTOR</u>				J701	1-526-644-41	SOCKET, CRT	
C1	*1-506-349-21	3P PLUG (L)		<u>COIL</u>			
C2	*1-564-880-31	PLUG, CONNECTOR 3P		L701	1-408-420-00	MICRO INDUCTOR 82UH	
C3	*1-508-766-00	4P PLUG (M)		L702	1-410-361-11	MICRO INDUCTOR 12UH	
C4	*1-564-884-11	PLUG, CONNECTOR 7P		L703	1-410-511-11	MICRO INDUCTOR 15UH	
C5	*1-564-879-21	PLUG, CONNECTOR 2P		L704	1-410-511-11	MICRO INDUCTOR 15UH	
C6	*1-508-784-00	1P PLUG		L751	1-408-413-00	MICRO INDUCTOR 22UH	
<u>CAPACITOR</u>				<u>TRANSISTOR</u>			
C701	1-123-947-00	ELECT 10MF 20% 250V		Q701	8-729-802-47	TRANSISTOR 2SC3504	
C702	1-123-356-00	ELECT 10MF 20% 16V		Q702	8-729-802-47	TRANSISTOR 2SC3504	
C703	1-123-356-00	ELECT 10MF 20% 16V		Q703	8-729-802-47	TRANSISTOR 2SC3504	
C704	1-129-714-00	FILM 0.01MF 10% 630V		Q704	8-729-326-11	TRANSISTOR 2SC2611	
C705	1-162-116-00	CERAMIC 680PF 10% 2KV		Q705	8-729-326-11	TRANSISTOR 2SC2611	
				Q706	8-729-326-11	TRANSISTOR 2SC2611	
				Q707	8-729-200-17	TRANSISTOR 2SA1091	
				Q708	8-729-200-17	TRANSISTOR 2SA1091	

C

D1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q709	8-729-200-17	TRANSISTOR 2SA1091		R750	1-249-405-11	CARBON 100 5% 1/6W	F
Q710	8-729-255-12	TRANSISTOR 2SC2551		R751	1-215-740-91	METAL 1.2K 5% 1/6W	
Q711	8-729-255-12	TRANSISTOR 2SC2551		R752	1-215-756-91	METAL 5.6K 5% 1/6W	
Q712	8-729-255-12	TRANSISTOR 2SC2551		R753	1-215-732-91	METAL 560 5% 1/6W	
Q713	8-729-117-54	TRANSISTOR 2SA1175		R754	1-215-772-91	METAL 27K 5% 1/6W	
Q714	8-729-900-36	TRANSISTOR DTC124ES		R755	1-215-714-91	METAL 100 5% 1/6W	
Q715	8-729-178-54	TRANSISTOR 2SC2785		R756	1-215-742-91	METAL 1.5K 5% 1/6W	
Q751	8-729-378-91	TRANSISTOR 2SD789		R757	1-215-714-91	METAL 100 5% 1/6W	
Q752	8-729-178-54	TRANSISTOR 2SC2785		R758	1-215-722-91	METAL 220 5% 1/6W	
Q753	8-729-103-43	TRANSISTOR 2SB734		R760	1-215-726-91	METAL 330 5% 1/6W	
Q754	8-729-378-91	TRANSISTOR 2SD789		R761	1-215-762-91	METAL 10K 5% 1/6W	
<u>RESISTOR</u>				R762	1-215-802-91	METAL 470K 5% 1/6W	
R701	1-215-750-91	METAL 3.3K 5% 1/6W		R763	1-215-762-91	METAL 10K 5% 1/6W	
R702	1-215-748-91	METAL 2.7K 5% 1/6W		R764	1-249-455-11	CARBON 4.7 5% 1/4W	F
R703	1-215-748-91	METAL 2.7K 5% 1/6W		R765	1-249-455-11	CARBON 4.7 5% 1/4W	F
R704	1-214-913-00	METAL 100K 1% 1/2W		R766	1-215-740-91	METAL 1.2K 5% 1/6W	
R705	1-214-913-00	METAL 100K 1% 1/2W		R767	1-215-744-91	METAL 1.8K 5% 1/6W	
R706	1-214-913-00	METAL 100K 1% 1/2W		R768	1-216-449-11	METAL OXIDE 56 5% 2W	F
R707	1-215-738-91	METAL 1K 5% 1/6W		R769	1-217-403-00	FUSIBLE 220 5% 1/4W	F
R708	1-215-738-91	METAL 1K 5% 1/6W		R770	1-215-762-91	METAL 10K 5% 1/6W	
R709	1-215-738-91	METAL 1K 5% 1/6W		<u>VARIABLE RESISTOR</u>			
R710	1-215-774-91	METAL 33K 5% 1/6W		RV701	1-230-103-00	RES, ADJ, CARBON 2.2K	
R711	1-215-774-91	METAL 33K 5% 1/6W		RV702	1-230-105-00	RES, ADJ, CARBON 3.3K	
R712	1-215-774-91	METAL 33K 5% 1/6W		RV703	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
R713	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	<u>SPARK GAP</u>			
R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	SG701	1-519-063-XX	DISCHARGING GAP	
R715	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	SG702	1-519-063-XX	DISCHARGING GAP	
R716	1-247-710-11	CARBON 560 5% 1/4W	F	SG703	1-519-063-XX	DISCHARGING GAP	
R717	1-247-710-11	CARBON 560 5% 1/4W	F	*****			
R718	1-247-710-11	CARBON 560 5% 1/4W	F	*A-1340-808-A D1 BOARD, COMPLETE			
R719	1-202-821-11	SOLID 1.8K 10% 1/2W		*****			
R720	1-202-821-11	SOLID 1.8K 10% 1/2W		<u>CAPACITOR</u>			
R721	1-202-821-11	SOLID 1.8K 10% 1/2W		C1501	1-110-182-81	MYLAR 0.022MF 10% 250V	
R722	1-215-734-91	METAL 680 5% 1/6W		C1503	1-110-190-81	MYLAR 0.01MF 10% 400V	
R723	1-215-762-91	METAL 10K 5% 1/6W		C1504	1-123-380-00	ELECT 1MF 20% 50V	
R724	1-215-744-91	METAL 1.8K 5% 1/6W		C1505	1-110-187-81	MYLAR 0.0056MF 10% 400V	
R726	1-207-458-00	WIREWOUND 0.39 10% 1/2W		C1506	1-123-382-00	ELECT 3.3MF 20% 50V	
R728	1-202-838-00	SOLID 100K 10% 1/2W		C1507	1-123-357-00	ELECT 22MF 20% 50V	
R729	1-202-842-91	SOLID 220K 10% 1/2W		C1508	1-123-379-00	ELECT 0.47MF 20% 50V	
R733	1-214-771-00	METAL 56K 1% 1/4W		C1509	1-123-360-00	ELECT 100MF 20% 50V	
R735	1-214-787-00	METAL 270K 1% 1/4W		C1510	1-123-381-00	ELECT 2.2MF 20% 50V	
R736	1-202-844-00	SOLID 330K 10% 1/2W		C1511	1-123-380-00	ELECT 1MF 20% 50V	
R737	1-215-744-91	METAL 1.8K 5% 1/6W		C1512	1-110-190-81	MYLAR 0.01MF 10% 400V	
R738	1-215-744-91	METAL 1.8K 5% 1/6W		C1513	1-123-332-00	ELECT 47MF 20% 16V	
R739	1-215-744-91	METAL 1.8K 5% 1/6W		C1514	1-123-330-00	ELECT 22MF 20% 16V	
R740	1-215-706-91	METAL 47 5% 1/6W		C1515	1-123-330-00	ELECT 22MF 20% 16V	
R741	1-215-750-91	METAL 3.3K 5% 1/6W		C1516	1-123-360-00	ELECT 100MF 20% 50V	
R742	1-215-750-91	METAL 3.3K 5% 1/6W		C1517	1-123-382-00	ELECT 3.3MF 20% 50V	
R743	1-215-750-91	METAL 3.3K 5% 1/6W		C1518	1-110-188-81	MYLAR 0.0068MF 10% 400V	
R744	1-215-738-91	METAL 1K 5% 1/6W					
R745	1-215-722-91	METAL 220 5% 1/6W					
R746	1-215-746-91	METAL 2.2K 5% 1/6W					

**D1 D3**

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C1519	1-110-184-81	MYLAR 0.033MF 10%	250V	R1522	1-215-774-91	METAL 33K 5%	1/6W
C1520	1-123-333-00	ELECT 100MF 20%	16V	R1523	1-215-760-91	METAL 8.2K 5%	1/6W
C1521	1-110-174-81	MYLAR 0.082MF 10%	100V	R1524	1-215-718-91	METAL 150 5%	1/6W
C1522	1-110-182-81	MYLAR 0.022MF 10%	250V	R1525	1-215-762-91	METAL 10K 5%	1/6W
C1523	1-123-356-00	ELECT 10MF 20%	16V	R1526	1-215-176-00	METAL 10K 5%	1/4W
C1524	1-110-187-81	MYLAR 0.0056MF 10%	400V	R1527	1-215-694-91	METAL 15 5%	1/6W
C1525	1-129-701-00	FILM 0.01MF 5%	100V	R1528	1-215-732-91	METAL 560 5%	1/6W
C1526	1-102-125-00	CERAMIC 0.0047MF 10%	50V	R1529	1-215-772-91	METAL 27K 5%	1/6W
C1527	1-110-175-81	MYLAR 0.1MF 10%	100V	R1530	1-216-451-11	METAL OXIDE 120 5%	2W F
<u>CONNECTOR</u>				R1531	1-215-865-11	METAL OXIDE 220 5%	1W F
CNJ1	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P		R1532	1-215-716-91	METAL 120 5%	1/6W
<u>DIODE</u>				R1533	1-247-242-00	CARBON 1.2K 5%	1/2W
D1501	8-719-911-19	DIODE 1SS119		R1534	1-215-710-91	METAL 68 5%	1/6W
D1502	8-719-911-19	DIODE 1SS119		R1535	1-216-423-11	METAL OXIDE 27 5%	1W F
<u>IC</u>				R1536	1-215-776-91	METAL 39K 5%	1/6W
IC1501	8-759-905-39	IC TDA1082		<u>VARIABLE RESISTOR</u>			
<u>COIL</u>				RV1501	1-230-625-11	RES, ADJ, CARBON 330	
L1501	1-408-245-00	MICRO INDUCTOR 22MMH		RV1502	1-230-634-51	RES, ADJ, CARBON 100K	
L1502	1-407-509-00	MICRO INDUCTOR 27MMH		RV1503	1-230-634-51	RES, ADJ, CARBON 100K	
L1503	1-408-242-00	MICRO INDUCTOR 10MMH		RV1504	1-226-771-00	RES, ADJ, METAL GLAZE 1K	
L1504	1-408-247-00	MICRO INDUCTOR 33MMH		RV1505	1-230-628-11	RES, ADJ, CARBON 2.2K	
<u>TRANSISTOR</u>				RV1506	1-230-634-51	RES, ADJ, CARBON 100K	
Q1501	8-729-178-54	TRANSISTOR 2SC2785		RV1507	1-230-630-11	RES, ADJ, CARBON 10K	
Q1502	8-729-178-54	TRANSISTOR 2SC2785		RV1508	1-230-627-11	RES, ADJ, CARBON 1K	
Q1503	8-729-374-02	TRANSISTOR 2SB740		RV1509	1-230-271-00	RES, ADJ, CARBON 4.7K	
Q1504	8-729-195-82	TRANSISTOR 2SC2958		RV1510	1-230-628-11	RES, ADJ, CARBON 2.2K	
<u>RESISTOR</u>				RV1511	1-230-625-11	RES, ADJ, CARBON 330	
R1501	1-215-712-91	METAL 82 5%	1/6W	<u>THERMISTOR</u>			
R1502	1-215-166-00	METAL 3.9K 5%	1/4W	TH1501	1-806-110-00	THERMISTOR	
R1503	1-215-734-91	METAL 680 5%	1/6W	TH1502	1-800-625-00	THERMISTOR	
R1504	1-215-768-91	METAL 18K 5%	1/6W	*****			
R1505	1-215-750-91	METAL 3.3K 5%	1/6W	*1-618-128-11	D3 BOARD	*****	
R1506	1-215-768-91	METAL 18K 5%	1/6W	<u>CAPACITOR</u>			
R1508	1-215-768-91	METAL 18K 5%	1/6W	C1301	1-136-171-00	FILM 0.33MF 5%	50V
R1509	1-215-132-00	METAL 150 5%	1/4W	C1302	1-136-171-00	FILM 0.33MF 5%	50V
R1510	1-215-738-91	METAL 1K 5%	1/6W	C1303	1-102-529-00	CERAMIC 100PF 5%	50V
R1511	1-215-214-81	METAL 390K 5%	1/4W	C1304	1-102-529-00	CERAMIC 100PF 5%	50V
R1512	1-215-798-91	METAL 330K 5%	1/6W	C1305	1-104-108-11	POLYSTYRENE 330PF 10%	50V
R1513	1-215-736-91	METAL 820 5%	1/6W	C1306	1-102-824-21	CERAMIC 470PF 5%	50V
R1514	1-215-722-91	METAL 220 5%	1/6W	C1307	1-102-824-21	CERAMIC 470PF 5%	50V
R1515	1-215-214-81	METAL 390K 5%	1/4W	C1308	1-123-321-00	ELECT 220MF 20%	16V
R1516	1-215-762-91	METAL 10K 5%	1/6W	C1309	1-123-380-00	ELECT 1MF 20%	50V
R1517	1-215-164-00	METAL 3.3K 5%	1/4W	C1310	1-123-318-00	ELECT 33MF 20%	16V
R1518	1-215-192-00	METAL 47K 5%	1/4W	C1311	1-123-318-00	ELECT 33MF 20%	16V
R1519	1-215-742-91	METAL 1.5K 5%	1/6W	<u>CONNECTOR</u>			
R1520	1-215-746-91	METAL 2.2K 5%	1/6W	CNJ3	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
R1521	1-215-774-91	METAL 33K 5%	1/6W				

D3

D2

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>DIODE</u>				<u>DIODE</u>			
D1301	8-719-000-12	DIODE MC931		C321	1-102-074-00	CERAMIC 0.001MF 10% 50V	
D1302	8-719-000-12	DIODE MC931		C322	1-102-679-00	CERAMIC 120PF 5% 50V	
D1303	8-719-000-12	DIODE MC931		C323	1-102-074-00	CERAMIC 0.001MF 10% 50V	
D1304	8-719-911-19	DIODE 1SS119		C324	1-101-004-00	CERAMIC 0.01MF 50V	
D1305	8-719-911-19	DIODE 1SS119		C325	1-101-004-00	CERAMIC 0.01MF 50V	
<u>IC</u>				C327	1-102-662-00	CERAMIC 7PF 0.5PF 50V	
IC1301	8-759-913-37	IC TDA4560		C328	1-102-662-00	CERAMIC 7PF 0.5PF 50V	
<u>COIL</u>				C329	1-102-662-00	CERAMIC 7PF 0.5PF 50V	
L1301	1-408-423-00	MICRO INDUCTOR 150UH		C330	1-102-662-00	CERAMIC 7PF 0.5PF 50V	
<u>TRANSISTOR</u>				C331	1-123-318-00	ELECT 33MF 20% 16V	
Q1301	8-729-178-54	TRANSISTOR 2SC2785		C332	1-123-321-00	ELECT 220MF 20% 16V	
<u>RESISTOR</u>				C334	1-101-361-00	CERAMIC 150PF 5% 50V	
R1301	1-215-714-91	METAL 100 5% 1/6W		C341	1-102-973-00	CERAMIC 100PF 5% 50V	
R1302	1-215-714-91	METAL 100 5% 1/6W		C342	1-102-973-00	CERAMIC 100PF 5% 50V	
R1303	1-215-423-00	METAL 1.2K 1% 1/6W		C343	1-102-531-00	CERAMIC 150PF 5% 50V	
R1304	1-215-772-91	METAL 27K 5% 1/6W		<u>CONNECTOR</u>			
R1305	1-215-766-91	METAL 15K 5% 1/6W		CNJ2	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
R1306	1-215-190-00	METAL 39K 5% 1/4W		<u>TRIMMER</u>			
R1307	1-215-776-91	METAL 39K 5% 1/6W		CT301	1-141-181-11	CAP, TRIMMER	
*****				<u>DIODE</u>			
*A-1345-612-A D2 BOARD, COMPLETE				D306	8-719-000-12	DIODE MC931	
*****				<u>DELAY LINE</u>			
<u>FILTER</u>				DL301	1-415-187-12	DELAY LINE	
BPF301	1-235-835-11	FILTER, BAND PASS		<u>IC</u>			
<u>CAPACITOR</u>				IC301	8-759-915-57	IC TDA4555	
C301	1-102-980-00	CERAMIC 270PF 5% 50V		<u>COIL</u>			
C302	1-102-980-00	CERAMIC 270PF 5% 50V		L301	1-404-554-11	COIL	
C303	1-102-525-00	CERAMIC 68PF 5% 50V		L302	1-404-554-11	COIL	
C304	1-102-735-00	CERAMIC 120PF 5% 50V		L303	1-404-554-11	COIL	
C305	1-102-514-00	CERAMIC 22PF 5% 50V		L304	1-408-408-00	MICRO INDUCTOR 8.2UH	
C306	1-102-514-00	CERAMIC 22PF 5% 50V		L305	1-404-554-11	COIL	
C307	1-102-735-00	CERAMIC 120PF 5% 50V		L306	1-408-429-00	MICRO INDUCTOR 470UH	
C308	1-102-525-00	CERAMIC 68PF 5% 50V		L307	1-404-495-00	COIL	
C309	1-101-004-00	CERAMIC 0.01MF 50V		L309	1-404-495-00	COIL	
C310	1-110-190-81	MYLAR 0.01MF 10% 400V		L310	1-408-423-00	MICRO INDUCTOR 150UH	
C311	1-110-182-81	MYLAR 0.022MF 10% 250V		L312	1-408-423-00	MICRO INDUCTOR 150UH	
C312	1-110-089-11	MYLAR 0.1MF 10% 100V		<u>TRANSISTOR</u>			
C313	1-123-322-00	ELECT 330MF 20% 16V		Q301	8-729-178-54	TRANSISTOR 2SC2785	
C314	1-123-380-00	ELECT 1MF 20% 50V		Q302	8-729-178-54	TRANSISTOR 2SC2785	
C316	1-110-171-81	MYLAR 0.047MF 10% 100V		Q305	8-729-178-54	TRANSISTOR 2SC2785	
C317	1-136-173-00	FILM 0.47MF 5% 50V		Q309	8-729-178-54	TRANSISTOR 2SC2785	
C318	1-101-006-00	CERAMIC 0.047MF 50V		Q312	8-729-178-54	TRANSISTOR 2SC2785	
C320	1-110-182-81	MYLAR 0.022MF 10% 250V		Q313	8-729-178-54	TRANSISTOR 2SC2785	
				Q315	8-729-178-54	TRANSISTOR 2SC2785	

D2

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Ref.No. Part No. Description

RESISTOR

R301	1-215-740-91	METAL	1.2K	5%	1/6W
R302	1-215-734-91	METAL	680	5%	1/6W
R303	1-215-728-91	METAL	390	5%	1/6W
R304	1-215-728-91	METAL	390	5%	1/6W
R305	1-215-154-00	METAL	1.2K	5%	1/4W
R306	1-215-762-91	METAL	10K	5%	1/6W
R307	1-214-746-00	METAL	5.1K	1%	1/4W
R311	1-215-782-91	METAL	68K	5%	1/6W
R312	1-215-146-00	METAL	560	5%	1/4W
R313	1-215-770-91	METAL	22K	5%	1/6W
R315	1-215-778-91	METAL	47K	5%	1/6W
R317	1-215-786-91	METAL	100K	5%	1/6W
R318	1-215-742-91	METAL	1.5K	5%	1/6W
R319	1-215-724-91	METAL	270	5%	1/6W
R320	1-215-736-91	METAL	820	5%	1/6W
R321	1-215-738-91	METAL	1K	5%	1/6W
R322	1-215-724-91	METAL	270	5%	1/6W
R323	1-215-742-91	METAL	1.5K	5%	1/6W
R324	1-215-714-91	METAL	100	5%	1/6W
R325	1-215-774-91	METAL	33K	5%	1/6W
R326	1-215-736-91	METAL	820	5%	1/6W
R327	1-215-776-91	METAL	39K	5%	1/6W
R328	1-215-744-91	METAL	1.8K	5%	1/6W
R331	1-215-736-91	METAL	820	5%	1/6W
R332	1-215-736-91	METAL	820	5%	1/6W
R334	1-215-190-00	METAL	39K	5%	1/4W
R349	1-215-714-91	METAL	100	5%	1/6W
R352	1-215-190-00	METAL	39K	5%	1/4W
R356	1-215-794-91	METAL	220K	5%	1/6W
R357	1-215-794-91	METAL	220K	5%	1/6W
R358	1-215-770-91	METAL	22K	5%	1/6W
R359	1-215-762-91	METAL	10K	5%	1/6W
R360	1-215-778-91	METAL	47K	5%	1/6W
R361	1-215-734-91	METAL	680	5%	1/6W
R362	1-215-734-91	METAL	680	5%	1/6W
R363	1-215-706-91	METAL	47	5%	1/6W
R369	1-215-738-91	METAL	1K	5%	1/6W

VARIABLE RESISTOR

RV301 1-230-624-51 RES, ADJ, CARBON 220

COIL

T301 1-404-584-11 COIL

THERMISTOR

TH301 1-800-644-00 THERMISTER

CRYSTAL

X301 1-567-131-00 OSCILLATOR, CRYSTAL

Remark

Ref.No. Part No.

Description

Remark

\*A-1345-614-A D BOARD, COMPLETE  
\*\*\*\*\*CAPACITOR

C001	1-123-380-00	ELECT	1MF	20%	50V
C002	1-123-369-00	ELECT	4.7MF	20%	50V
C003	1-123-369-00	ELECT	4.7MF	20%	50V
C004	1-102-973-00	CERAMIC	100PF	5%	50V
C005	1-110-175-81	MYLAR	0.1MF	10%	100V
C006	1-123-307-00	ELECT	100MF	20%	6.3V
C007	1-102-820-00	CERAMIC	330PF	5%	50V
C009	1-102-978-00	CERAMIC	220PF	5%	50V
C010	1-102-514-00	CERAMIC	22PF	5%	50V
C011	1-102-525-00	CERAMIC	68PF	5%	50V
C012	1-123-607-00	ELECT	0.1MF	20%	50V
C013	1-102-973-00	CERAMIC	100PF	5%	50V
C014	1-110-190-81	MYLAR	0.01MF	10%	400V
C015	1-123-307-00	ELECT	100MF	20%	6.3V
C016	1-102-129-00	CERAMIC	0.01MF	10%	50V
C018	1-123-356-00	ELECT	10MF	20%	50V
C019	1-123-356-00	ELECT	10MF	20%	50V
C020	1-123-307-00	ELECT	100MF	20%	6.3V
C022	1-110-190-81	MYLAR	0.01MF	10%	400V
C026	1-110-182-81	MYLAR	0.022MF	10%	250V
C027	1-102-973-00	CERAMIC	100PF	5%	50V
C028	1-102-973-00	CERAMIC	100PF	5%	50V
C031	1-162-290-31	CERAMIC	470PF	10%	50V
C032	1-102-129-00	CERAMIC	0.01MF	10%	50V
C061	1-110-175-81	MYLAR	0.1MF	10%	100V
C062	1-101-361-00	CERAMIC	150PF	5%	50V
C063	1-123-380-00	ELECT	1MF	20%	50V
C271	1-123-343-00	ELECT	33MF	20%	25V
C273	1-123-359-00	ELECT	47MF	20%	50V
C274	1-123-364-00	ELECT	1000MF	20%	50V
C275	1-123-343-00	ELECT	33MF	20%	25V
C276	1-123-359-00	ELECT	47MF	20%	50V
C278	1-123-349-00	ELECT	1000MF	20%	35V
C279	1-123-343-00	ELECT	33MF	20%	25V
C280	1-123-349-00	ELECT	1000MF	20%	35V
C281	1-123-360-00	ELECT	100MF	20%	50V
C282	1-101-005-00	CERAMIC	0.022MF		50V
C283	1-101-005-00	CERAMIC	0.022MF		50V
C284	1-102-973-00	CERAMIC	100PF	5%	50V
C285	1-102-973-00	CERAMIC	100PF	5%	50V
C286	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C287	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C401	1-123-381-00	ELECT	2.2MF	20%	50V
C402	1-110-175-81	MYLAR	0.1MF	10%	100V
C403	1-102-816-00	CERAMIC	120PF	5%	50V
C404	1-123-356-00	ELECT	10MF	20%	16V
C405	1-123-380-00	ELECT	1MF	20%	50V
C406	1-131-373-00	TANTALUM	22MF	10%	16V
C407	1-110-182-81	MYLAR	0.022MF	10%	250V



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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C408	1-102-973-00	CERAMIC	100PF 5% 50V	C526	1-123-323-00	ELECT	470MF 20% 16V
C409	1-131-344-00	TANTALUM	0.33MF 10% 35V	C527	1-123-336-00	ELECT	470MF 20% 25V
C410	1-123-369-00	ELECT	4.7MF 20% 50V	C529	1-110-175-81	MYLAR	0.1MF 10% 100V
C411	1-124-645-11	ELECT	10MF 20% 16V	C530	1-123-321-00	ELECT	220MF 20% 16V
C412	1-123-381-00	ELECT	2.2MF 20% 50V	C560	1-129-743-00	FILM	0.022MF 10% 400V
C413	1-110-182-81	MYLAR	0.022MF 10% 250V	C561	1-123-357-00	ELECT	22MF 20% 50V
C414	1-110-182-81	MYLAR	0.022MF 10% 250V	C562	1-102-030-00	CERAMIC	330PF 10% 500V
C415	1-123-369-00	ELECT	4.7MF 20% 50V	C563	1-123-931-00	ELECT	3.3MF 20% 160V
C416	1-124-002-11	ELECT	1MF 20% 50V	C564	1-102-157-00	CERAMIC	560PF 10% 500V
C417	1-131-344-00	TANTALUM	0.33MF 10% 35V	C565	1-106-182-00	MYLAR	0.0027MF 10% 100V
C418	1-131-344-00	TANTALUM	0.33MF 10% 35V	C566	1-123-318-00	ELECT	33MF 20% 16V
C419	1-123-323-00	ELECT	470MF 20% 16V	C567	1-110-116-11	MYLAR	0.068MF 10% 250V
C420	1-110-182-81	MYLAR	0.022MF 10% 250V	C568	1-123-362-00	ELECT	330MF 20% 50V
C421	1-110-182-81	MYLAR	0.022MF 10% 250V	C569	1-131-347-00	TANTALUM	1MF 10% 35V
C422	1-110-182-81	MYLAR	0.022MF 10% 250V	C570	1-123-360-00	ELECT	100MF 20% 50V
C423	1-101-880-00	CERAMIC	47PF 5% 50V	C571	1-123-380-00	ELECT	1MF 20% 50V
C424	1-110-182-81	MYLAR	0.022MF 10% 250V	C572	1-123-360-00	ELECT	100MF 20% 50V
C425	1-110-182-81	MYLAR	0.022MF 10% 250V	C801	1-123-362-00	ELECT	330MF 20% 50V
C426	1-110-182-81	MYLAR	0.022MF 10% 250V	C802	1-110-171-81	MYLAR	0.047MF 10% 100V
C427	1-110-179-81	MYLAR	0.22MF 10% 100V	C803	1-110-182-81	MYLAR	0.022MF 10% 250V
C428	1-110-179-81	MYLAR	0.22MF 10% 100V	C804	1-123-948-00	ELECT	22MF 20% 250V
C429	1-110-179-81	MYLAR	0.22MF 10% 100V	C805	1-162-114-00	CERAMIC	0.0047MF 2KV
C430	1-123-318-00	ELECT	33MF 20% 16V	C806	1-110-175-81	MYLAR	0.1MF 10% 100V
C431	1-123-318-00	ELECT	33MF 20% 16V	C807	1-123-333-00	ELECT	100MF 20% 16V
C432	1-123-318-00	ELECT	33MF 20% 16V	C808	1-123-333-00	ELECT	100MF 20% 16V
C433	1-110-190-81	MYLAR	0.01MF 10% 400V	C809	1-123-322-00	ELECT	330MF 20% 16V
C434	1-123-318-00	ELECT	33MF 20% 16V	C810	1-123-024-00	ELECT	33MF 160V
C435	1-110-186-81	MYLAR	0.0047MF 10% 400V	C811	1-136-117-00	FILM	2MF 5% 200V
C436	1-123-318-00	ELECT	33MF 20% 16V	C812	1-123-943-00	ELECT	1MF 20% 250V
C437	1-102-951-00	CERAMIC	15PF 5% 50V	C813	1-110-190-81	MYLAR	0.01MF 10% 400V
C438	1-123-321-00	ELECT	220MF 20% 16V	C814	1-110-172-81	MYLAR	0.056MF 10% 100V
C501	1-123-356-00	ELECT	10MF 20% 50V	C815	1-136-053-00	FILM	1.2MF 5% 200V
C502	1-110-187-81	MYLAR	0.0056MF 10% 400V	C817	1-136-101-00	FILM	0.022MF 3% 2KV
C503	1-110-175-81	MYLAR	0.1MF 10% 100V	C818	1-129-721-00	FILM	0.039MF 10% 630V
C504	1-123-332-00	ELECT	47MF 20% 16V	C819	1-161-754-00	CERAMIC	0.001MF 10% 3KV
C505	1-130-023-00	FILM	0.0027MF 5% 50V	C820	1-110-192-81	MYLAR	0.015MF 10% 400V
C506	1-110-175-81	MYLAR	0.1MF 10% 100V	C821	1-102-327-00	CERAMIC	330PF 15% 1.5KV
C507	1-102-989-00	CERAMIC	68PF 5% 500V	C822	1-102-114-00	CERAMIC	470PF 10% 50V
C508	1-123-379-00	ELECT	0.47MF 20% 50V	C823	1-110-186-81	MYLAR	0.0047MF 10% 400V
C509	1-123-323-00	ELECT	470MF 20% 16V	C824	1-102-157-00	CERAMIC	560PF 10% 500V
C511	1-108-614-91	MYLAR	0.001MF 10% 100V	<b>FILTER</b>			
C512	1-124-013-11	ELECT	100MF 20% 16V	CF001	1-567-686-11	OSCILLATOR, CERAMIC	
C513	1-110-182-81	MYLAR	0.022MF 10% 250V	<b>CONNECTOR</b>			
C514	1-136-171-00	FILM	0.33MF 5% 50V	CNP1	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C515	1-136-171-00	FILM	0.33MF 5% 50V	CNP2	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C516	1-101-361-00	CERAMIC	150PF 5% 50V	CNP3	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P	
C517	1-123-380-00	ELECT	1MF 20% 50V	CNP4	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
C518	1-123-330-00	ELECT	22MF 20% 16V	D1	*1-564-884-11	PLUG, CONNECTOR 7P	
C519	1-110-174-81	MYLAR	0.082MF 10% 100V	D2	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P	
C520	1-123-379-00	ELECT	0.47MF 20% 50V	D3	*1-564-881-11	PLUG, CONNECTOR 4P	
C521	1-123-369-00	ELECT	4.7MF 20% 50V				
C522	1-123-380-00	ELECT	1MF 20% 50V				
C523	1-110-192-81	MYLAR	0.015MF 10% 400V				

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D4	*1-564-880-31	PLUG, CONNECTOR 3P		D418	8-719-911-19	DIODE 1SS119	
D5	*1-508-766-00	4P PLUG (M)		D419	8-719-911-19	DIODE 1SS119	
D7	*1-508-765-00	3P PLUG (M)		D421	8-719-102-71	DIODE RD5.6E-N2	
D8	*1-564-883-11	PLUG, CONNECTOR 6P		D422	8-719-911-19	DIODE 1SS119	
D9	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		D423	8-719-911-19	DIODE 1SS119	
D10	*1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)					
D11	*1-564-887-11	PLUG, CONNECTOR 10P		D424	8-719-911-19	DIODE 1SS119	
D12	*1-564-879-21	PLUG, CONNECTOR 2P		D425	8-719-911-19	DIODE 1SS119	
D13	*1-564-890-11	PLUG, CONNECTOR 13P		D426	8-719-911-19	DIODE 1SS119	
D14	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		D427	8-719-911-19	DIODE 1SS119	
D15	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		D428	8-719-911-19	DIODE 1SS119	
D16	*1-564-880-31	PLUG, CONNECTOR 3P		D501	8-719-911-19	DIODE 1SS119	
D17	*1-564-887-11	PLUG, CONNECTOR 10P		D502	8-719-911-19	DIODE 1SS119	
D18	*1-564-885-11	PLUG, CONNECTOR 8P		D503	8-719-911-19	DIODE 1SS119	
D19	*1-508-786-00	2P PLUG (M)		D504	8-719-911-19	DIODE 1SS119	
D20	*1-564-883-11	PLUG, CONNECTOR 6P		D506	8-719-911-19	DIODE 1SS119	
D21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		D507	8-719-911-19	DIODE 1SS119	
D25	*1-508-784-00	1P PLUG		D508	8-719-911-19	DIODE 1SS119	
D26	*1-508-786-00	2P PLUG (M)		D509	8-719-911-19	DIODE 1SS119	
DY1	*1-508-765-00	3P PLUG (M)		D510	8-719-911-19	DIODE 1SS119	
DY2	*1-508-765-00	3P PLUG (M)		D511	8-719-911-19	DIODE 1SS119	
DY3	*1-508-766-00	4P PLUG (M)					
<u>DIODE</u>				D560	8-719-924-06	DIODE ERC24-06S	
D001	8-719-101-41	DIODE RD3.9E-L2		D561	8-719-924-06	DIODE ERC24-06S	
D002	8-719-911-19	DIODE 1SS119		D562	8-719-924-06	DIODE ERC24-06S	
D003	8-719-911-19	DIODE 1SS119		D563	8-719-924-06	DIODE ERC24-06S	
D004	8-719-911-19	DIODE 1SS119		D564	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119		D801	8-719-924-06	DIODE ERC24-06S	
D006	8-719-911-19	DIODE 1SS119		D802	8-719-924-06	DIODE ERC24-06S	
D007	8-719-911-19	DIODE 1SS119		D803	8-719-300-65	DIODE ES1F	
D008	8-719-102-71	DIODE RD5.6E-N2		D804	8-719-924-06	DIODE ERC24-06S	
D009	8-719-101-24	DIODE RD39E-B2		D805	8-719-924-06	DIODE ERC24-06S	
D011	8-719-102-71	DIODE RD5.6E-N2		D806	8-719-305-15	DIODE GH3F	
D015	8-719-102-74	DIODE RD6.2E-N1		D807	8-719-305-15	DIODE GH3F	
D016	8-719-911-19	DIODE 1SS119		D808	8-719-900-26	DIODE ERD29-08J	
D017	8-719-911-19	DIODE 1SS119		D809	8-719-931-13	DIODE EQ801-13	
D271	8-719-911-19	DIODE 1SS119		<u>IC</u>			
D401	8-719-911-19	DIODE 1SS119		IC001	8-759-603-96	IC M50436-515SP	
D402	8-719-911-19	DIODE 1SS119		IC002	8-759-603-41	IC M58655P	
D403	8-719-911-19	DIODE 1SS119		IC004	8-759-157-40	IC UPC574J	
D404	8-719-911-19	DIODE 1SS119		IC251	8-749-943-62	IC STK-4362	
D405	8-719-911-19	DIODE 1SS119			*4-368-684-01	SPRING (L); IC251	
D406	8-719-911-19	DIODE 1SS119		IC402	8-759-911-10	IC TDA3505	
D407	8-719-911-19	DIODE 1SS119		IC403	8-759-007-21	MC74HC4053N	
D408	8-719-911-19	DIODE 1SS119		IC404	8-759-007-21	MC74HC4053N	
D409	8-719-911-19	DIODE 1SS119		IC501	8-759-915-46	IC TDA2579	
D412	8-719-911-19	DIODE 1SS119			*4-375-717-01	HEAT SINK, IC; IC501	
D413	8-719-911-19	DIODE 1SS119		IC502	8-759-403-61	IC AN78M12R	
D414	8-719-911-19	DIODE 1SS119		<u>MODULE</u>			
D415	8-719-911-19	DIODE 1SS119		IC401	1-235-534-11	CONTROL MODULE, PICTURE	
D416	8-719-911-19	DIODE 1SS119					
D417	8-719-911-19	DIODE 1SS119					

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>COIL</u>							
L001	1-408-413-00	MICRO INDUCTOR 22UH		Q804	4-365-216-00	SPACER, MICA; Q803	
L002	1-408-425-00	MICRO INDUCTOR 220UH			*4-368-683-01	SPRING; Q803	
L801	1-459-074-00	COIL, DUST CORE 6.8MMH(HCC)			8-729-300-90	TRANSISTOR 2SD1497-06	
L802	1-421-329-00	COIL, CHOKE			4-363-414-00	SPACER, MICA; Q804	
L803	1-437-090-00	HDT		Q805	*4-368-683-01	SPRING; Q804	
L804	1-408-239-00	MICRO INDUCTOR 4.7MMH			8-729-168-82	TRANSISTOR 2SC2688	
L805	1-459-224-00	HLC		<u>RESISTOR</u>			
L806	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)		R001	1-215-778-91	METAL 47K 5% 1/6W	
L807	1-407-365-00	COIL, CHOKE		R002	1-215-778-91	METAL 47K 5% 1/6W	
L808	1-407-365-00	COIL, CHOKE		R003	1-215-770-91	METAL 22K 5% 1/6W	
L809	1-407-365-00	COIL, CHOKE		R004	1-215-770-91	METAL 22K 5% 1/6W	
L810	1-421-390-00	COIL, FERRITE (PMC)		R005	1-215-738-91	METAL 1K 5% 1/6W	
<u>TRANSISTOR</u>				R006	1-215-730-91	METAL 470 5% 1/6W	
Q001	8-729-177-32	TRANSISTOR 2SD773		R007	1-215-730-91	METAL 470 5% 1/6W	
Q002	8-729-117-54	TRANSISTOR 2SA1175		R008	1-215-730-91	METAL 470 5% 1/6W	
Q003	8-729-900-63	TRANSISTOR DTA124ES		R009	1-215-738-91	METAL 1K 5% 1/6W	
Q004	8-729-603-50	TRANSISTOR 2SC403SP		R011	1-215-754-91	METAL 4.7K 5% 1/6W	
Q005	8-729-117-54	TRANSISTOR 2SA1175		R012	1-215-754-91	METAL 4.7K 5% 1/6W	
Q006	8-729-900-89	TRANSISTOR DTC144ES		R013	1-215-770-91	METAL 22K 5% 1/6W	
Q011	8-729-178-54	TRANSISTOR 2SC2785		R014	1-215-176-00	METAL 10K 5% 1/4W	
Q012	8-729-117-54	TRANSISTOR 2SA1175		R015	1-215-178-00	METAL 12K 5% 1/4W	
Q061	8-729-117-54	TRANSISTOR 2SA1175		R016	1-215-184-00	METAL 22K 5% 1/4W	
Q401	8-729-178-54	TRANSISTOR 2SC2785		R017	1-215-774-91	METAL 33K 5% 1/6W	
Q402	8-729-178-54	TRANSISTOR 2SC2785		R018	1-215-772-91	METAL 27K 5% 1/6W	
Q403	8-729-178-54	TRANSISTOR 2SC2785		R019	1-215-774-91	METAL 33K 5% 1/6W	
Q404	8-729-178-54	TRANSISTOR 2SC2785		R020	1-215-756-91	METAL 5.6K 5% 1/6W	
Q405	8-729-178-54	TRANSISTOR 2SC2785		R021	1-215-770-91	METAL 22K 5% 1/6W	
Q406	8-729-900-80	TRANSISTOR DTC114ES		R022	1-215-770-91	METAL 22K 5% 1/6W	
Q407	8-729-178-54	TRANSISTOR 2SC2785		R023	1-215-762-91	METAL 10K 5% 1/6W	
Q408	8-729-900-89	TRANSISTOR DTC144ES		R024	1-215-770-91	METAL 22K 5% 1/6W	
Q409	8-729-900-89	TRANSISTOR DTC144ES		R025	1-215-770-91	METAL 22K 5% 1/6W	
Q410	8-729-900-89	TRANSISTOR DTC144ES		R026	1-215-738-91	METAL 1K 5% 1/6W	
Q411	8-729-178-54	TRANSISTOR 2SC2785		R027	1-215-738-91	METAL 1K 5% 1/6W	
Q412	8-729-178-54	TRANSISTOR 2SC2785		R028	1-215-738-91	METAL 1K 5% 1/6W	
Q413	8-729-178-54	TRANSISTOR 2SC2785		R029	1-215-738-91	METAL 1K 5% 1/6W	
Q501	8-729-117-54	TRANSISTOR 2SA1175		R030	1-215-738-91	METAL 1K 5% 1/6W	
Q502	8-729-178-54	TRANSISTOR 2SC2785		R031	1-215-738-91	METAL 1K 5% 1/6W	
Q504	8-729-117-54	TRANSISTOR 2SA1175		R032	1-215-738-91	METAL 1K 5% 1/6W	
Q505	8-729-178-54	TRANSISTOR 2SC2785		R033	1-215-770-91	METAL 22K 5% 1/6W	
Q507	8-729-178-54	TRANSISTOR 2SC2785		R035	1-215-770-91	METAL 22K 5% 1/6W	
Q508	8-729-900-36	TRANSISTOR DTC124ES		R036	1-215-762-91	METAL 10K 5% 1/6W	
Q509	8-729-900-36	TRANSISTOR DTC124ES		R037	1-215-738-91	METAL 1K 5% 1/6W	
Q560	8-729-169-02	TRANSISTOR 2SC2690A		R038	1-215-738-91	METAL 1K 5% 1/6W	
Q561	8-729-195-82	TRANSISTOR 2SC2958		R039	1-215-738-91	METAL 1K 5% 1/6W	
Q562	8-729-122-02	TRANSISTOR 2SA1220A		R040	1-215-738-91	METAL 1K 5% 1/6W	
Q563	8-729-805-13	TRANSISTOR 2SC1475-13		R041	1-215-738-91	METAL 1K 5% 1/6W	
Q564	8-729-103-43	TRANSISTOR 2SB734		R042	1-215-738-91	METAL 1K 5% 1/6W	
Q801	8-729-805-13	TRANSISTOR 2SC1475-13		R043	1-215-738-91	METAL 1K 5% 1/6W	
Q802	8-729-103-43	TRANSISTOR 2SB734		R044	1-215-738-91	METAL 1K 5% 1/6W	
Q803	8-719-801-06	THYRISTOR S6344G		R045	1-215-738-91	METAL 1K 5% 1/6W	
				R046	1-215-738-91	METAL 1K 5% 1/6W	
				R047	1-215-738-91	METAL 1K 5% 1/6W	

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Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R048	1-215-738-91	METAL	1K	5%	1/6W		R412	1-215-784-91	METAL	82K	5%	1/6W	
R049	1-215-754-91	METAL	4.7K	5%	1/6W		R413	1-215-798-91	METAL	330K	5%	1/6W	
R050	1-215-128-00	METAL	100	5%	1/4W		R414	1-215-772-91	METAL	27K	5%	1/6W	
R052	1-215-900-11	METAL OXIDE	22K	5%	2W	F	R415	1-215-792-91	METAL	180K	5%	1/6W	
R053	1-215-726-91	METAL	330	5%	1/6W		R416	1-215-770-91	METAL	22K	5%	1/6W	
R054	1-217-387-00	FUSIBLE	10	5%	1/4W	F	R417	1-215-786-91	METAL	100K	5%	1/6W	
R055	1-215-730-91	METAL	470	5%	1/6W		R418	1-215-734-91	METAL	680	5%	1/6W	
R056	1-215-738-91	METAL	1K	5%	1/6W		R419	1-215-206-81	METAL	180K	5%	1/4W	
R057	1-215-762-91	METAL	10K	5%	1/6W		R420	1-215-778-91	METAL	47K	5%	1/6W	
R058	1-215-754-91	METAL	4.7K	5%	1/6W		R421	1-215-778-91	METAL	47K	5%	1/6W	
R060	1-215-766-91	METAL	15K	5%	1/6W		R422	1-215-154-00	METAL	1.2K	5%	1/4W	
R061	1-215-778-91	METAL	47K	5%	1/6W		R423	1-215-710-91	METAL	68	5%	1/6W	
R062	1-215-788-91	METAL	120K	5%	1/6W		R424	1-215-463-00	METAL	56K	1%	1/6W	
R063	1-215-748-91	METAL	2.7K	5%	1/6W		R425	1-215-756-91	METAL	5.6K	5%	1/6W	
R064	1-215-730-91	METAL	470	5%	1/6W		R426	1-215-714-91	METAL	100	5%	1/6W	
R065	1-215-774-91	METAL	33K	5%	1/6W		R427	1-215-128-00	METAL	100	5%	1/4W	
R066	1-215-786-91	METAL	100K	5%	1/6W		R428	1-215-764-91	METAL	12K	5%	1/6W	
R067	1-215-762-91	METAL	10K	5%	1/6W		R429	1-215-200-00	METAL	100K	5%	1/4W	
R068	1-215-762-91	METAL	10K	5%	1/6W		R430	1-215-796-91	METAL	270K	5%	1/6W	
R070	1-215-136-00	METAL	220	5%	1/4W		R431	1-215-754-91	METAL	4.7K	5%	1/6W	
R071	1-215-730-91	METAL	470	5%	1/6W		R432	1-215-152-00	METAL	1K	5%	1/4W	
R078	1-215-770-91	METAL	22K	5%	1/6W		R433	1-215-720-91	METAL	180	5%	1/6W	
R079	1-215-772-91	METAL	27K	5%	1/6W		R434	1-215-720-91	METAL	180	5%	1/6W	
R080	1-215-738-91	METAL	1K	5%	1/6W		R435	1-215-720-91	METAL	180	5%	1/6W	
R081	1-215-766-91	METAL	15K	5%	1/6W		R436	1-215-778-91	METAL	47K	5%	1/6W	
R082	1-215-754-91	METAL	4.7K	5%	1/6W		R437	1-215-144-00	METAL	470	5%	1/4W	
R083	1-215-766-91	METAL	15K	5%	1/6W		R438	1-215-738-91	METAL	1K	5%	1/6W	
R084	1-215-750-91	METAL	3.3K	5%	1/6W		R439	1-215-394-00	METAL	75	1%	1/6W	
R085	1-215-754-91	METAL	4.7K	5%	1/6W		R440	1-215-394-00	METAL	75	1%	1/6W	
R271	1-215-734-91	METAL	680	5%	1/6W		R441	1-215-394-00	METAL	75	1%	1/6W	
R272	1-215-734-91	METAL	680	5%	1/6W		R442	1-214-702-00	METAL	75	1%	1/4W	
R273	1-215-730-91	METAL	470	5%	1/6W		R443	1-215-802-91	METAL	470K	5%	1/6W	
R274	1-215-730-91	METAL	470	5%	1/6W		R444	1-215-802-91	METAL	470K	5%	1/6W	
R275	1-215-746-91	METAL	2.2K	5%	1/6W		R445	1-215-802-91	METAL	470K	5%	1/6W	
R278	1-249-393-11	CARBON	10	5%	1/6W	F	R447	1-215-744-91	METAL	1.8K	5%	1/6W	
R279	1-249-393-11	CARBON	10	5%	1/6W	F	R448	1-215-744-91	METAL	1.8K	5%	1/6W	
R280	1-215-786-91	METAL	100K	5%	1/6W		R449	1-215-744-91	METAL	1.8K	5%	1/6W	
R281	1-215-762-91	METAL	10K	5%	1/6W		R450	1-215-744-91	METAL	1.8K	5%	1/6W	
R284	1-247-107-00	CARBON	100	5%	1/4W	F	R451	1-215-744-91	METAL	1.8K	5%	1/6W	
R285	1-215-762-91	METAL	10K	5%	1/6W		R452	1-215-744-91	METAL	1.8K	5%	1/6W	
R287	1-215-786-91	METAL	100K	5%	1/6W		R454	1-215-714-91	METAL	100	5%	1/6W	
R288	1-215-202-00	METAL	120K	5%	1/4W		R455	1-215-714-91	METAL	100	5%	1/6W	
R289	1-215-778-91	METAL	47K	5%	1/6W		R456	1-215-714-91	METAL	100	5%	1/6W	
R401	1-215-750-91	METAL	3.3K	5%	1/6W		R457	1-215-738-91	METAL	1K	5%	1/6W	
R402	1-215-754-91	METAL	4.7K	5%	1/6W		R458	1-215-738-91	METAL	1K	5%	1/6W	
R403	1-215-762-91	METAL	10K	5%	1/6W		R459	1-215-738-91	METAL	1K	5%	1/6W	
R404	1-215-752-91	METAL	3.9K	5%	1/6W		R460	1-215-738-91	METAL	1K	5%	1/6W	
R405	1-215-730-91	METAL	470	5%	1/6W		R461	1-215-732-91	METAL	560	5%	1/6W	
R406	1-215-730-91	METAL	470	5%	1/6W		R464	1-215-152-00	METAL	1K	5%	1/4W	
R408	1-215-732-91	METAL	560	5%	1/6W		R465	1-247-711-11	CARBON	680	5%	1/4W	F
R409	1-215-762-91	METAL	10K	5%	1/6W		R466	1-215-730-91	METAL	470	5%	1/6W	
R410	1-215-216-81	METAL	470K	5%	1/4W		R467	1-215-730-91	METAL	470	5%	1/6W	
R411	1-215-810-91	METAL	1M	5%	1/6W		R468	1-247-232-00	CARBON	470	5%	1/2W	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R469	1-215-730-91	METAL	470 5% 1/6W	R572	1-215-766-91	METAL	15K 5% 1/6W
R501	1-215-722-91	METAL	220 5% 1/6W	R573	1-215-726-91	METAL	330 5% 1/6W
R502	1-215-748-91	METAL	2.7K 5% 1/6W	R574	1-215-694-91	METAL	15 5% 1/6W
R503	1-215-730-91	METAL	470 5% 1/6W	R575	1-215-164-00	METAL	3.3K 5% 1/4W
R504	1-215-182-00	METAL	18K 5% 1/4W	R576	1-215-104-81	METAL	10 5% 1/4W
R505	1-215-754-91	METAL	4.7K 5% 1/6W	R577	1-216-354-11	METAL OXIDE	2.7 5% 1W F
R506	1-215-750-91	METAL	3.3K 5% 1/6W	R578	1-212-990-00	FUSIBLE	220 5% 1/2W F
R507	1-215-752-91	METAL	3.9K 5% 1/6W	R579	1-215-810-91	METAL	1M 5% 1/6W
R508	1-215-756-91	METAL	5.6K 5% 1/6W	R580	1-249-399-11	CARBON	33 5% 1/6W F
R509	1-215-722-91	METAL	220 5% 1/6W	R583	1-215-872-11	METAL OXIDE	3.3K 5% 1W F
R510	1-216-464-11	METAL OXIDE	18K 5% 2W F	R584	1-215-152-00	METAL	1K 5% 1/4W
R511	1-214-763-00	METAL	27K 1% 1/4W	R585	1-249-382-11	CARBON	1.2 5% 1/6W F
R513	1-215-790-91	METAL	150K 5% 1/6W	R586	1-249-382-11	CARBON	1.2 5% 1/6W F
R514	1-215-766-91	METAL	15K 5% 1/6W	R587	1-216-458-11	METAL OXIDE	1.8K 5% 2W F
R516	1-215-186-00	METAL	27K 5% 1/4W	R588	1-215-790-91	METAL	150K 5% 1/6W
R517	1-215-746-91	METAL	2.2K 5% 1/6W	R589	1-215-738-91	METAL	1K 5% 1/6W
R519	1-215-128-00	METAL	100 5% 1/4W	R801	1-247-270-00	CARBON	18K 5% 1/2W
R522	1-215-764-91	METAL	12K 5% 1/6W	R802	1-249-448-11	CARBON	1.2 5% 1/4W E
R523	1-215-738-91	METAL	1K 5% 1/6W	R803	1-215-883-11	METAL OXIDE	33 5% 2W F
R525	1-210-825-00	SOLID	3.3M 5% 1/4W	R804	1-216-379-11	METAL OXIDE	6.8 5% 2W F
R526	1-210-825-00	SOLID	3.3M 5% 1/4W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R527	1-215-714-91	METAL	100 5% 1/6W	R806	1-215-216-81	METAL	470K 5% 1/4W
R528	1-215-714-91	METAL	100 5% 1/6W	R807	1-215-869-11	METAL OXIDE	1K 5% 1W F
R529	1-215-740-91	METAL	1.2K 5% 1/6W	R808	1-202-838-00	SOLID	100K 10% 1/2W
R530	1-215-728-91	METAL	390 5% 1/6W	R809	1-202-826-00	SOLID	4.7K 10% 1/2W
R531	1-215-770-91	METAL	22K 5% 1/6W	R810	1-202-818-00	SOLID	1K 10% 1/2W
R532	1-215-748-91	METAL	2.7K 5% 1/6W	R811	1-217-430-00	FUSIBLE	4.7 5% 1/2W F
R533	1-215-164-00	METAL	3.3K 5% 1/4W	R812	1-249-448-11	CARBON	1.2 5% 1/4W F
R534	1-215-461-00	METAL	47K 1% 1/6W	R813	1-217-430-00	FUSIBLE	4.7 5% 1/2W F
R535	1-215-198-00	METAL	82K 5% 1/4W	R814	1-244-923-00	CARBON	120K 5% 1/2W
R536	1-215-738-91	METAL	1K 5% 1/6W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R537	1-215-758-91	METAL	6.8K 5% 1/6W	R816	1-215-871-11	METAL OXIDE	2.2K 5% 1W F
R538	1-215-712-91	METAL	82 5% 1/6W	R817	1-207-678-00	WIREWOUND	10 10% 5W F
R539	1-215-477-00	METAL	220K 1% 1/6W	R818	1-207-678-00	WIREWOUND	10 10% 5W F
R540	1-215-744-91	METAL	1.8K 5% 1/6W	R819	1-215-198-00	METAL	82K 5% 1/4W
R541	1-215-786-91	METAL	100K 5% 1/6W	R820	1-215-710-91	METAL	68 5% 1/6W
R542	1-215-216-81	METAL	470K 5% 1/4W	R821	1-215-158-00	METAL	1.8K 5% 1/4W
R543	1-202-463-00	SOLID	2.2M 5% 1/4W	R822	1-247-753-11	CARBON	1.2K 5% 1/2W F
R544	1-210-825-00	SOLID	3.3M 5% 1/4W	R823	1-216-345-11	METAL OXIDE	0.47 5% 1W F
R546	1-215-200-00	METAL	100K 5% 1/4W	R824	1-215-886-11	METAL OXIDE	100 5% 2W F
R549	1-215-738-91	METAL	1K 5% 1/6W	VARIABLE RESISTOR			
R552	1-215-738-91	METAL	1K 5% 1/6W	RV401	1-230-630-11	RES, ADJ, CARBON 10K	
R560	1-247-107-00	CARBON	100 5% 1/4W F	RV402	1-230-630-11	RES, ADJ, CARBON 10K	
R561	1-215-182-00	METAL	18K 5% 1/4W	RV501	1-226-703-00	RES, ADJ, METAL GLAZE 10K	
R562	1-215-869-11	METAL OXIDE	1K 5% 1W F	RV502	1-226-776-00	RES, ADJ, METAL GLAZE 220K	
R563	1-247-690-11	CARBON	15 5% 1/4W F	RV503	1-226-775-00	RES, ADJ, METAL GLAZE 100K	
R564	1-216-350-11	METAL OXIDE	1.2 5% 1W F	RV560	1-230-271-00	RES, ADJ, CARBON 4.7K	
R566	1-216-350-11	METAL OXIDE	1.2 5% 1W F	RV801	1-230-271-00	RES, ADJ, CARBON 4.7K	
R567	1-249-405-11	CARBON	100 5% 1/6W F	SPARK GAP			
R568	1-215-746-91	METAL	2.2K 5% 1/6W	SG801	1-519-063-XX	DISCHARGING GAP	
R569	1-249-393-11	CARBON	10 5% 1/6W F				
R570	1-215-148-00	METAL	680 5% 1/4W				
R571	1-215-482-00	METAL	360K 1% 1/6W				

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Ref.No.	Part No.	Description
<u>TRANSFORMER</u>		
T801	1-437-090-00	HDT
T803	1-413-059-00	TRANSFORMER, FERRITE (DFT)

Ref.No.	Part No.	Description
<u>THERMISTOR</u>		
TH560	1-806-213-00	THERMISTOR

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Ref.No.	Part No.	Description
<u>CAPACITOR</u>		
C1401	1-123-356-00	ELECT 10MF 20% 16V

Ref.No.	Part No.	Description
<u>CONNECTOR</u>		
CN1401	1-507-806-00	JACK
H1	*1-564-886-11	PLUG, CONNECTOR 9P
H2	*1-564-887-11	PLUG, CONNECTOR 10P
H3	*1-564-883-11	PLUG, CONNECTOR 6P

Ref.No.	Part No.	Description
<u>DIODE</u>		
D1401	8-719-812-41	DIODE TLR124
	*4-380-621-01	HOLDER (B), LED; D1401

Ref.No.	Part No.	Description
<u>RESISTOR</u>		
R1401	1-215-776-91	METAL 39K 5% 1/6W
R1402	1-215-770-91	METAL 22K 5% 1/6W
R1406	1-215-144-00	METAL 470 5% 1/4W
R1407	1-215-144-00	METAL 470 5% 1/4W
R1408	1-215-754-91	METAL 4.7K 5% 1/6W
R1409	1-215-746-91	METAL 2.2K 5% 1/6W

Ref.No.	Part No.	Description
<u>VARIABLE RESISTOR</u>		
RV1401	1-230-916-11	RES, VAR, CARBON 10K
RV1402	1-230-916-11	RES, VAR, CARBON 10K
RV1403	1-230-916-11	RES, VAR, CARBON 10K
RV1405	1-230-916-11	RES, VAR, CARBON 10K
RV1406	1-230-916-11	RES, VAR, CARBON 10K

Ref.No.	Part No.	Description
<u>SWITCH</u>		
S1401	1-554-804-11	SWITCH, PUSH (1 KEY)
S1402	1-554-804-11	SWITCH, PUSH (1 KEY)
S1403	1-554-804-11	SWITCH, PUSH (1 KEY)
S1404	1-554-804-11	SWITCH, PUSH (1 KEY)
S1405	1-554-804-11	SWITCH, PUSH (1 KEY)
S1406	1-554-804-11	SWITCH, PUSH (1 KEY)
S1407	1-554-804-11	SWITCH, PUSH (1 KEY)
S1408	1-554-804-11	SWITCH, PUSH (1 KEY)
S1409	1-554-804-11	SWITCH, PUSH (1 KEY)
S1411	1-554-804-11	SWITCH, PUSH (1 KEY)

Ref.No.	Part No.	Description	Remark
S1413	1-554-824-11	SWITCH, PUSH (1 KEY)	
*****			
*A-1371-210-A J1 BOARD, COMPLETE			
*****			
<u>CAPACITOR</u>			
C1201	1-123-379-00	ELECT 0.47MF 20% 50V	
C1202	1-102-824-21	CERAMIC 470PF 5% 50V	
C1203	1-102-824-21	CERAMIC 470PF 5% 50V	
C1204	1-123-332-00	ELECT 47MF 20% 16V	
C1205	1-123-332-00	ELECT 47MF 20% 16V	
C1206	1-123-379-00	ELECT 0.47MF 20% 50V	
C1207	1-102-824-21	CERAMIC 470PF 5% 50V	
C1208	1-102-824-21	CERAMIC 470PF 5% 50V	
C1209	1-123-330-00	ELECT 22MF 20% 16V	
C1210	1-123-380-00	ELECT 1MF 20% 50V	
C1211	1-123-330-00	ELECT 22MF 20% 16V	
C1212	1-123-380-00	ELECT 1MF 20% 50V	
C1213	1-102-824-21	CERAMIC 470PF 5% 50V	
C1214	1-123-380-00	ELECT 1MF 20% 50V	
C1215	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C1216	1-102-824-21	CERAMIC 470PF 5% 50V	
C1217	1-123-380-00	ELECT 1MF 20% 50V	
C1218	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C1219	1-123-307-00	ELECT 100MF 20% 10V	
C1220	1-123-307-00	ELECT 100MF 20% 10V	
C1221	1-123-307-00	ELECT 100MF 20% 10V	
C1222	1-110-171-81	MYLAR 0.047MF 10% 100V	
C1223	1-110-171-81	MYLAR 0.047MF 10% 100V	
C1224	1-108-614-91	MYLAR 0.001MF 10% 100V	
C1225	1-123-321-00	ELECT 220MF 20% 16V	
C1226	1-123-332-00	ELECT 47MF 20% 16V	
C1227	1-123-307-00	ELECT 100MF 20% 10V	
C1228	1-110-171-81	MYLAR 0.047MF 10% 100V	
C1229	1-108-614-91	MYLAR 0.001MF 10% 100V	
C1230	1-123-380-00	ELECT 1MF 20% 50V	
C1231	1-123-333-00	ELECT 100MF 20% 16V	
C1232	1-110-184-81	MYLAR 0.033MF 10% 250V	
C1233	1-123-379-00	ELECT 0.47MF 20% 50V	
C1234	1-123-379-00	ELECT 0.47MF 20% 50V	
C1235	1-123-381-00	ELECT 2.2MF 20% 50V	
C1236	1-110-186-81	MYLAR 0.0047MF 10% 400V	
C1237	1-123-381-00	ELECT 2.2MF 20% 50V	
C1238	1-110-186-81	MYLAR 0.0047MF 10% 400V	
C1239	1-110-186-81	MYLAR 0.0047MF 10% 400V	
C1240	1-110-182-81	MYLAR 0.022MF 10% 250V	
C1241	1-110-182-81	MYLAR 0.022MF 10% 250V	
C1242	1-123-380-00	ELECT 1MF 20% 50V	
C1250	1-123-332-00	ELECT 47MF 20% 16V	
C1251	1-102-976-00	CERAMIC 180PF 5% 50V	
C1252	1-123-307-00	ELECT 100MF 20% 10V	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C1253	1-123-307-00	ELECT	100MF 20% 10V	<u>COIL</u>			
C1254	1-102-976-00	CERAMIC	180PF 5% 50V	L1201	1-459-407-00	COIL, FERRITE CHOKE	
C1255	1-123-332-00	ELECT	47MF 20% 16V	L1202	1-459-407-00	COIL, FERRITE CHOKE	
C1256	1-110-171-81	MYLAR	0.047MF 10% 100V	<u>TRANSISTOR</u>			
C1257	1-123-332-00	ELECT	47MF 20% 16V	Q1203	8-729-117-54	TRANSISTOR 2SA1175	
C1258	1-123-332-00	ELECT	47MF 20% 16V	Q1204	8-729-178-54	TRANSISTOR 2SC2785	
C1259	1-123-333-00	ELECT	100MF 20% 16V	Q1205	8-729-117-54	TRANSISTOR 2SA1175	
C1260	1-110-182-81	MYLAR	0.022MF 10% 250V	Q1206	8-729-117-54	TRANSISTOR 2SA1175	
C1261	1-110-182-81	MYLAR	0.022MF 10% 250V	Q1207	8-729-900-65	TRANSISTOR DTA144ES	
<u>CONNECTOR</u>				Q1208	8-729-178-54	TRANSISTOR 2SC2785	
CN1201	1-561-534-41	SOCKET 21P		Q1209	8-729-117-54	TRANSISTOR 2SA1175	
CN1202	1-561-534-41	SOCKET 21P		Q1210	8-729-117-54	TRANSISTOR 2SA1175	
CN1203	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT		Q1211	8-729-178-54	TRANSISTOR 2SC2785	
J1	*1-564-899-31	PLUG, CONNECTOR 10P		Q1212	8-729-178-54	TRANSISTOR 2SC2785	
J2	*1-564-897-11	PLUG, CONNECTOR 8P		Q1213	8-729-900-89	TRANSISTOR DTC144ES	
J3	*1-564-895-21	PLUG, CONNECTOR 6P		Q1214	8-729-900-89	TRANSISTOR DTC144ES	
J4	*1-564-891-11	PLUG, CONNECTOR 2P		Q1215	8-729-117-54	TRANSISTOR 2SA1175	
J5	*1-564-891-11	PLUG, CONNECTOR 2P		Q1216	8-729-117-54	TRANSISTOR 2SA1175	
J6	*1-564-895-21	PLUG, CONNECTOR 6P		Q1217	8-729-178-54	TRANSISTOR 2SC2785	
J7	*1-564-894-11	PLUG, CONNECTOR 5P		Q1218	8-729-178-54	TRANSISTOR 2SC2785	
J8	*1-564-895-21	PLUG, CONNECTOR 6P		Q1219	8-729-900-89	TRANSISTOR DTC144ES	
<u>DIODE</u>				Q1220	8-729-900-89	TRANSISTOR DTC144ES	
D1201	8-719-102-81	DIODE RD7.5E-N2		Q1221	8-729-117-54	TRANSISTOR 2SA1175	
D1202	8-719-102-81	DIODE RD7.5E-N2		Q1222	8-729-900-36	TRANSISTOR DTC124ES	
D1203	8-719-102-81	DIODE RD7.5E-N2		Q1223	8-729-178-54	TRANSISTOR 2SC2785	
D1204	8-719-102-81	DIODE RD7.5E-N2		Q1224	8-729-178-54	TRANSISTOR 2SC2785	
D1205	8-719-102-81	DIODE RD7.5E-N2		<u>RESISTOR</u>			
D1206	8-719-102-81	DIODE RD7.5E-N2		R1201	1-215-802-91	METAL 470K 5% 1/6W	
D1207	8-719-000-12	DIODE MC931		R1202	1-215-186-00	METAL 27K 5% 1/4W	
D1208	8-719-000-12	DIODE MC931		R1203	1-215-778-91	METAL 47K 5% 1/6W	
D1209	8-719-815-55	DIODE 1S1555		R1204	1-215-730-91	METAL 470 5% 1/6W	
D1210	8-719-000-12	DIODE MC931		R1205	1-215-778-91	METAL 47K 5% 1/6W	
D1211	8-719-000-12	DIODE MC931		R1206	1-215-730-91	METAL 470 5% 1/6W	
D1212	8-719-000-12	DIODE MC931		R1207	1-215-762-91	METAL 10K 5% 1/6W	
D1213	8-719-102-81	DIODE RD7.5E-N2		R1208	1-215-762-91	METAL 10K 5% 1/6W	
D1214	8-719-102-81	DIODE RD7.5E-N2		R1209	1-215-712-91	METAL 82 5% 1/6W	
D1215	8-719-000-06	DIODE MC921		R1210	1-215-712-91	METAL 82 5% 1/6W	
D1216	8-719-911-19	DIODE 1SS119		R1211	1-215-802-91	METAL 470K 5% 1/6W	
D1217	8-719-911-19	DIODE 1SS119		R1212	1-215-772-91	METAL 27K 5% 1/6W	
D1218	8-719-911-19	DIODE 1SS119		R1213	1-215-712-91	METAL 82 5% 1/6W	
D1219	8-719-911-19	DIODE 1SS119		R1214	1-215-736-91	METAL 820 5% 1/6W	
D1220	8-719-815-55	DIODE 1S1555		R1215	1-215-772-91	METAL 27K 5% 1/6W	
D1221	8-719-102-97	DIODE RD12E-N2		R1216	1-215-770-91	METAL 22K 5% 1/6W	
D1222	8-719-102-97	DIODE RD12E-N2		R1217	1-215-736-91	METAL 820 5% 1/6W	
D1223	8-719-911-19	DIODE 1SS119		R1218	1-215-772-91	METAL 27K 5% 1/6W	
D1224	8-719-911-19	DIODE 1SS119		R1219	1-215-184-00	METAL 22K 5% 1/4W	
D1225	8-719-815-55	DIODE 1S1555		R1220	1-215-778-91	METAL 47K 5% 1/6W	
<u>IC</u>				R1221	1-215-778-91	METAL 47K 5% 1/6W	
IC1201	8-759-914-76	IC CX20199		R1222	1-215-772-91	METAL 27K 5% 1/6W	
IC1202	8-759-145-58	IC UPC4558C		R1223	1-215-772-91	METAL 27K 5% 1/6W	



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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R1224	1-215-712-91	METAL	82 5% 1/6W	R1279	1-215-144-00	METAL	470 5% 1/4W
R1225	1-215-128-00	METAL	100 5% 1/4W	R1280	1-215-754-91	METAL	4.7K 5% 1/6W
R1226	1-215-712-91	METAL	82 5% 1/6W	R1281	1-215-754-91	METAL	4.7K 5% 1/6W
R1227	1-215-714-91	METAL	100 5% 1/6W	R1282	1-215-762-91	METAL	10K 5% 1/6W
R1230	1-215-714-91	METAL	100 5% 1/6W	R1283	1-215-786-91	METAL	100K 5% 1/6W
R1231	1-215-394-00	METAL	75 1% 1/6W	R1284	1-215-168-00	METAL	4.7K 5% 1/4W
R1232	1-215-762-91	METAL	10K 5% 1/6W	R1285	1-215-730-91	METAL	470 5% 1/6W
R1233	1-215-762-91	METAL	10K 5% 1/6W	R1286	1-215-730-91	METAL	470 5% 1/6W
R1234	1-215-772-91	METAL	27K 5% 1/6W	*****			
R1235	1-215-772-91	METAL	27K 5% 1/6W	*1-617-746-11	H2 BOARD	*****	
R1236	1-215-128-00	METAL	100 5% 1/4W		DIODE		
R1237	1-215-176-00	METAL	10K 5% 1/4W	D01	8-719-800-94	DIODE TLUR144	
R1238	1-215-176-00	METAL	10K 5% 1/4W	*4-380-613-01	HOLDER (A), LED; D01		
R1239	1-215-176-00	METAL	10K 5% 1/4W	D02	8-719-812-41	DIODE TLR124	
R1240	1-247-107-00	CARBON	100 5% 1/4W F	*4-337-478-00	HOLDER (F), LED; D02		
R1241	1-215-168-00	METAL	4.7K 5% 1/4W	D03	8-719-812-41	DIODE TLR124	
R1242	1-215-754-91	METAL	4.7K 5% 1/6W	*4-337-478-00	HOLDER (F), LED; D03		
R1243	1-215-738-91	METAL	1K 5% 1/6W	D04	8-719-812-41	DIODE TLR124	
R1244	1-215-742-91	METAL	1.5K 5% 1/6W	*4-337-478-00	HOLDER (F), LED; D04		
R1245	1-215-810-91	METAL	1M 5% 1/6W	D05	8-719-812-41	DIODE TLR124	
R1246	1-215-762-91	METAL	10K 5% 1/6W	*4-337-478-00	HOLDER (F), LED; D05		
R1247	1-215-742-91	METAL	1.5K 5% 1/6W	D06	8-719-911-19	DIODE 1SS119	
R1248	1-215-738-91	METAL	1K 5% 1/6W	D07	8-719-911-19	DIODE 1SS119	
R1249	1-215-778-91	METAL	47K 5% 1/6W		IC		
R1250	1-215-762-91	METAL	10K 5% 1/6W	IC01	8-741-138-70	IC 8X-1387	
R1251	1-215-168-00	METAL	4.7K 5% 1/4W	*****			
R1252	1-215-778-91	METAL	47K 5% 1/6W		MISCELLANEOUS	*****	
R1253	1-215-778-91	METAL	47K 5% 1/6W	1-246-521-00	RES, CARBON 100K		
R1254	1-247-698-11	CARBON	68 5% 1/4W F	△1-451-255-22	DEFLECTION YOKE (5Y-164)		
R1255	1-215-702-91	METAL	33 5% 1/6W	1-452-032-00	MAGNET, DISK; 10MM φ		
R1256	1-215-754-91	METAL	4.7K 5% 1/6W	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ		
R1257	1-215-754-91	METAL	4.7K 5% 1/6W	1-452-146-21	MAGNET, BMC		
R1258	1-215-750-91	METAL	3.3K 5% 1/6W	1-503-642-11	SPEAKER		
R1259	1-215-750-91	METAL	3.3K 5% 1/6W	△1-551-270-11	CORD, POWER		
R1260	1-247-698-11	CARBON	68 5% 1/4W F	△1-554-762-21	SWITCH, PUSH (AC POWER)(1 KEY)		
R1261	1-215-394-00	METAL	75 1% 1/6W	*1-558-539-21	CABLE, P-P		
R1262	1-215-738-91	METAL	1K 5% 1/6W	1-563-204-11	SOCKET, ANTENNA (PAL/SECAM)		
R1263	1-215-752-91	METAL	3.9K 5% 1/6W	L901 △1-426-278-11	COIL, DEMAGNETIZATION		
R1264	1-215-760-91	METAL	8.2K 5% 1/6W	L902 △1-452-391-11	NECK ASSY, CRT (NA305)		
R1265	1-215-760-91	METAL	8.2K 5% 1/6W	RV901 △1-237-280-11	RESISTOR ASSY, HIGH-VOLTAGE		
R1266	1-215-752-91	METAL	3.9K 5% 1/6W	RV902 △1-228-544-11	RESISTOR ASSY, HIGH-VOLTAGE		
R1267	1-215-394-00	METAL	75 1% 1/6W	T802 △1-439-332-42	TRANSFORMER ASSY, FLYBACK		
R1268	1-215-702-91	METAL	33 5% 1/6W	V901 △8-736-653-05	CRT (A64JKJ60X)		
R1269	1-215-750-91	METAL	3.3K 5% 1/6W				
R1270	1-215-774-91	METAL	33K 5% 1/6W				
R1271	1-215-774-91	METAL	33K 5% 1/6W				
R1272	1-215-750-91	METAL	3.3K 5% 1/6W				
R1273	1-215-732-91	METAL	560 5% 1/6W				
R1274	1-247-698-11	CARBON	68 5% 1/4W F				
R1275	1-215-750-91	METAL	3.3K 5% 1/6W				
R1276	1-215-752-91	METAL	3.9K 5% 1/6W				
R1277	1-215-104-81	METAL	10 5% 1/4W				
R1278	1-215-762-91	METAL	10K 5% 1/6W				

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

**ACCESSORIES AND PACKING MATERIALS**  
 \*\*\*\*\*

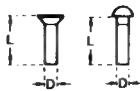
<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
A-1470-744-A	COMMANDER ASSY (RM-664)	
X-4374-152-1	CASE ASSY, UPPER	
4-372-838-01	FILTER	
4-374-179-01	COVER, BATTERY	
4-374-183-11	CASE, LOWER	
4-380-646-21	SHEET, SILICON RUBBER	
*4-381-123-01	CUSHION (UPPER) (ASSY)	
*4-381-124-01	CUSHION (LOWER) (ASSY)	
*4-381-125-01	CUSHION (FRONT)	
*4-381-126-01	INDIVIDUAL CARTON	
*4-381-155-01	BAG, PROTECTION	
4-482-253-71	MANUAL, INSTRUCTION	

## HARDWARE NOMENCLATURE

Screw:

P 3 x 10

L: Length in mm  
D: Diameter in mm  
Type of head



Indicated slotted-head only.  
Unless otherwise indicated, it means cross-recessed head (Phillips type).

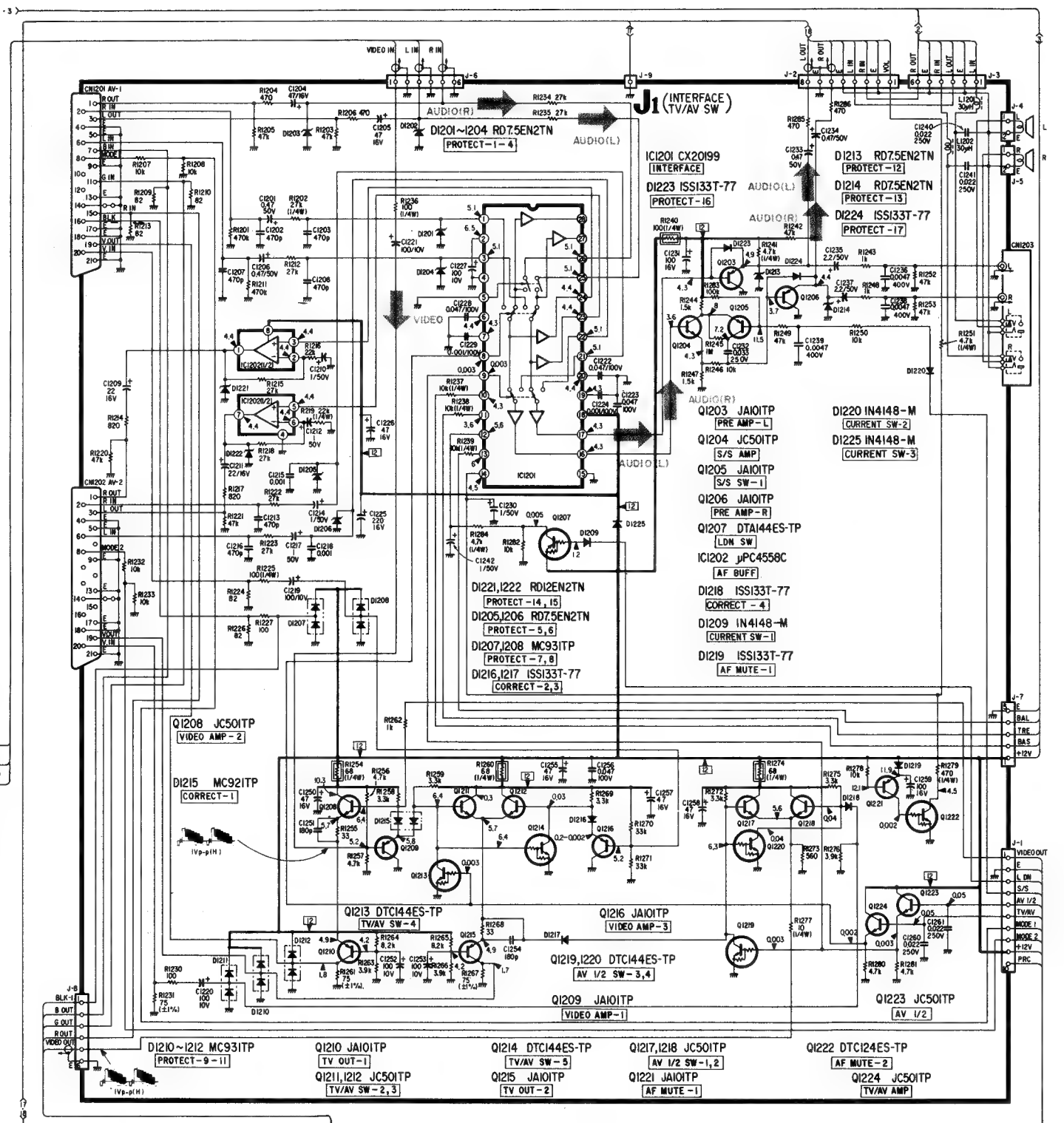
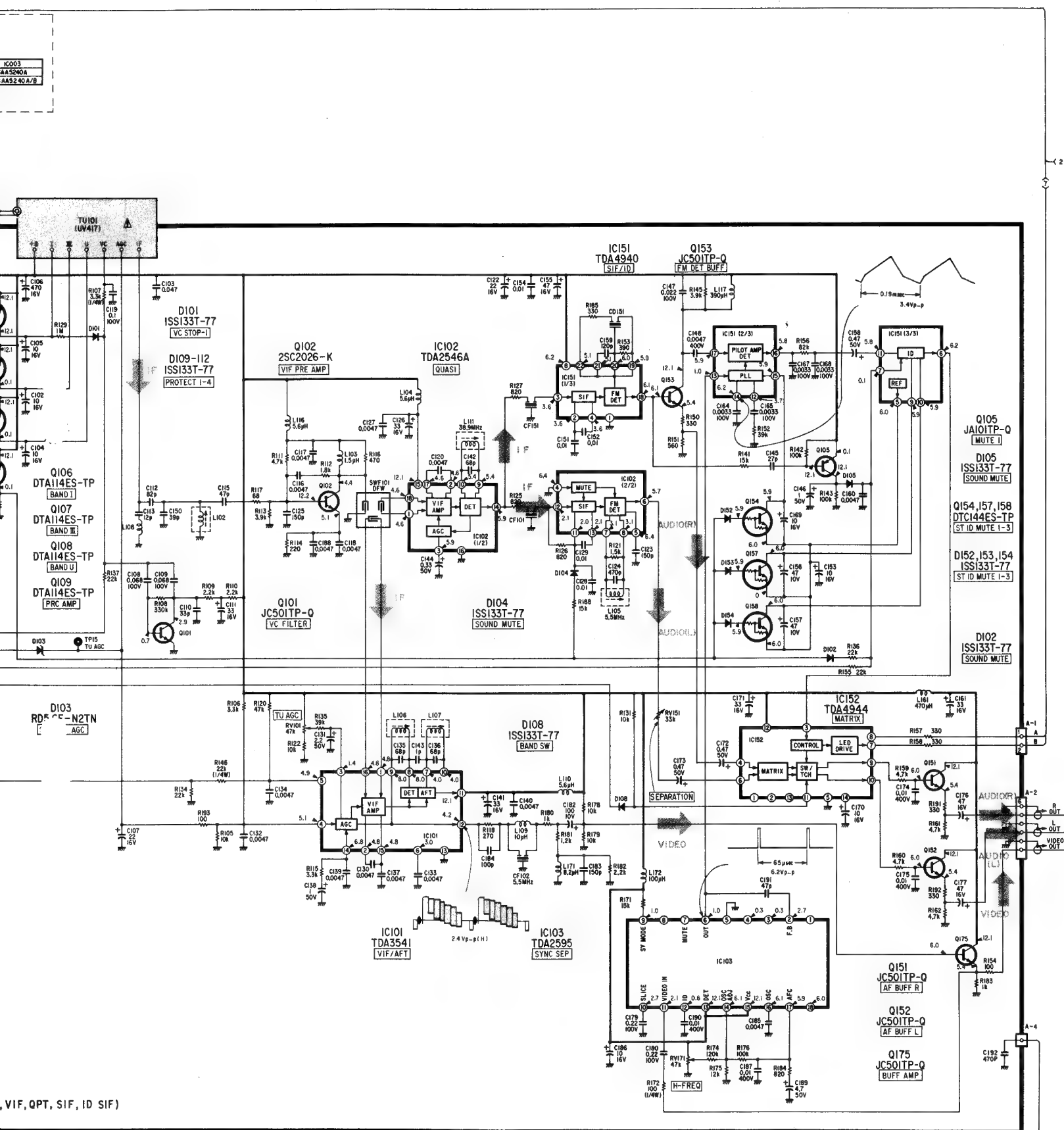
Nut, Washer, Retaining ring:

N 3

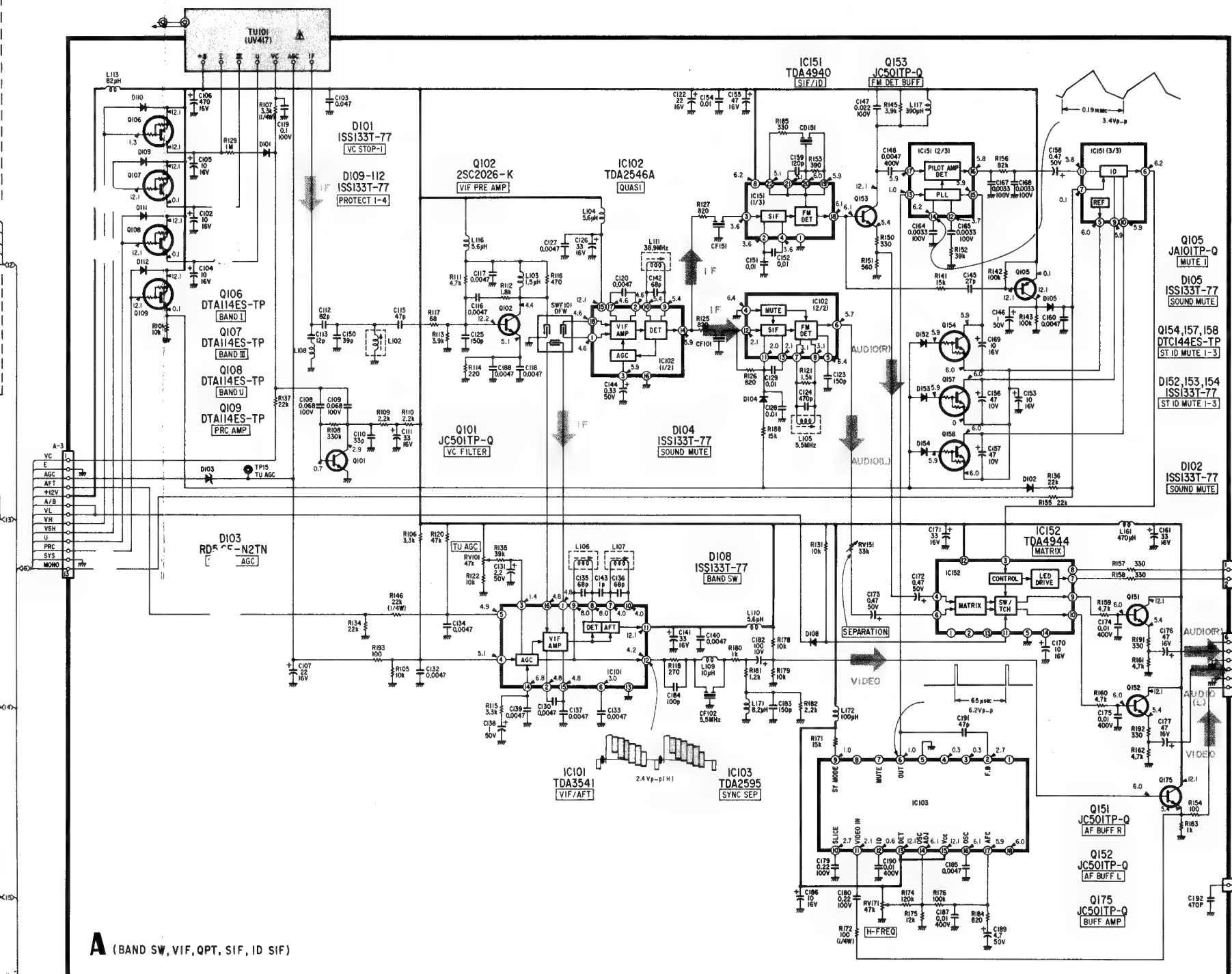
Diameter of usable screw or shaft  
Reference designation

Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		brazier-head screw	

Reference Designation	Shape	Description	Remarks
<b>SELF-TAPPING SCREWS</b>			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	



—(2.3.7)—



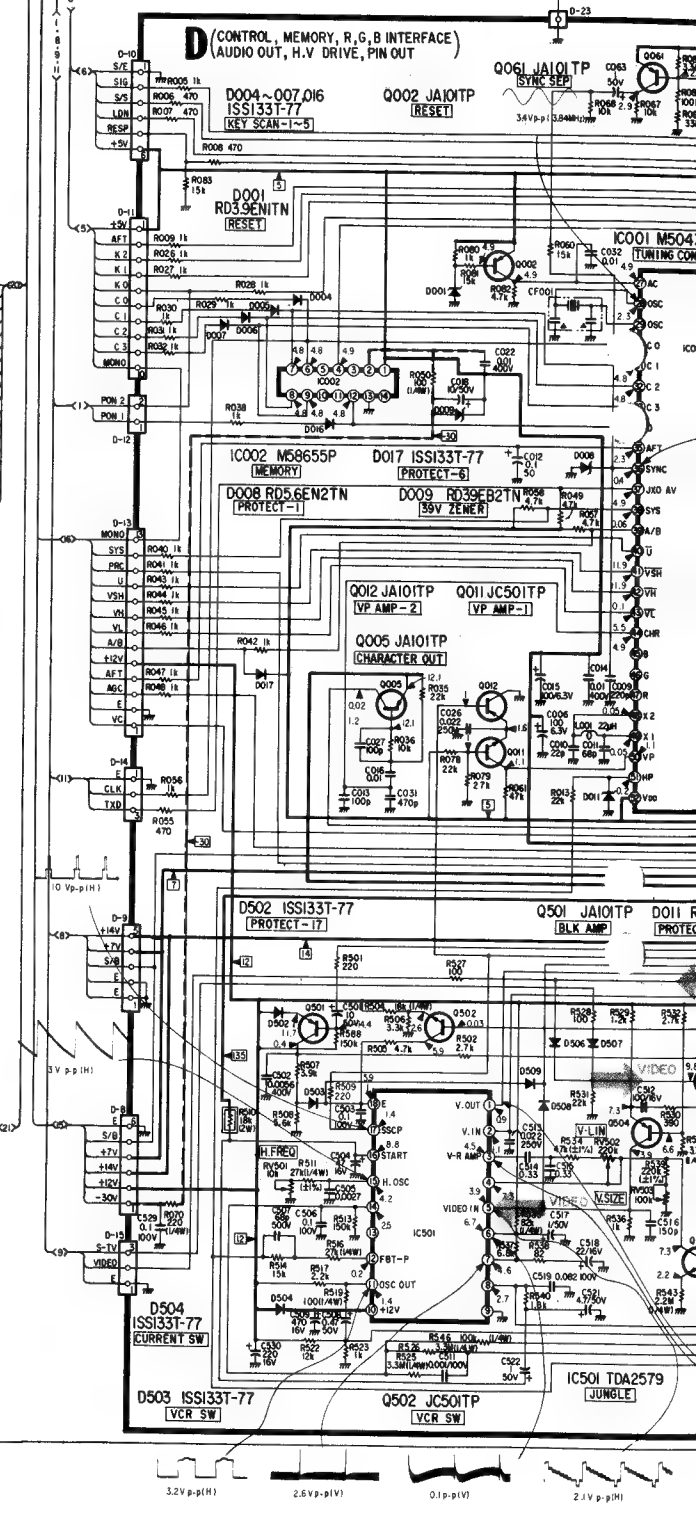
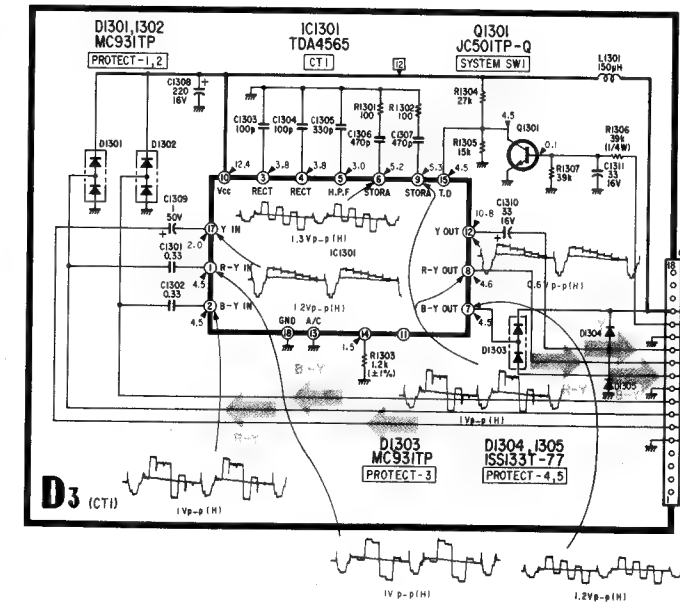
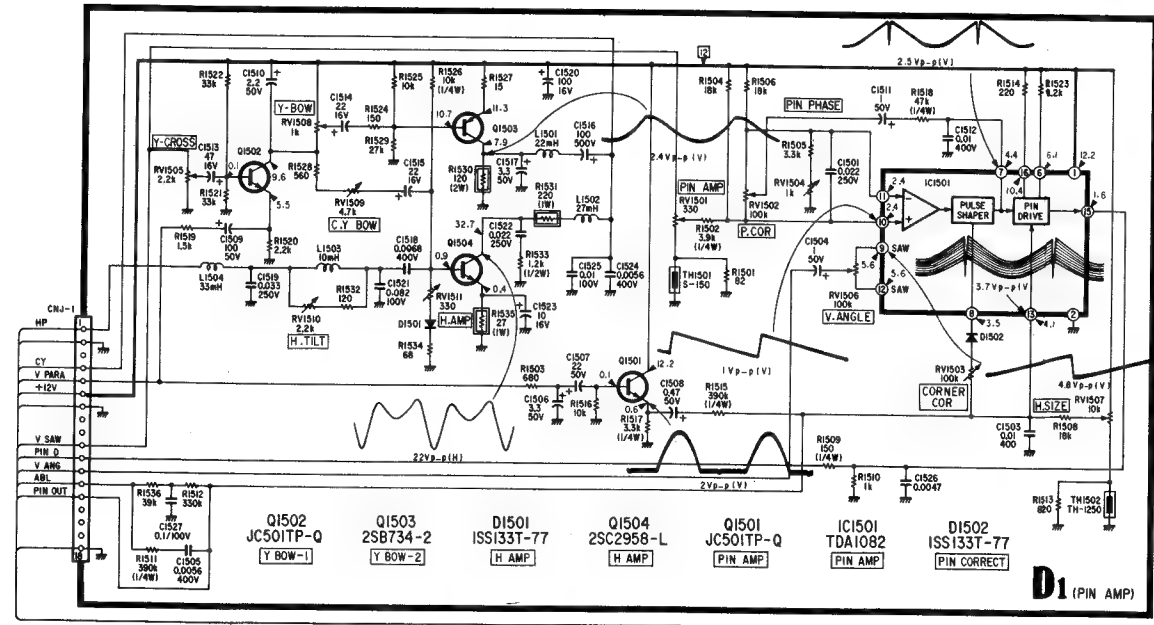
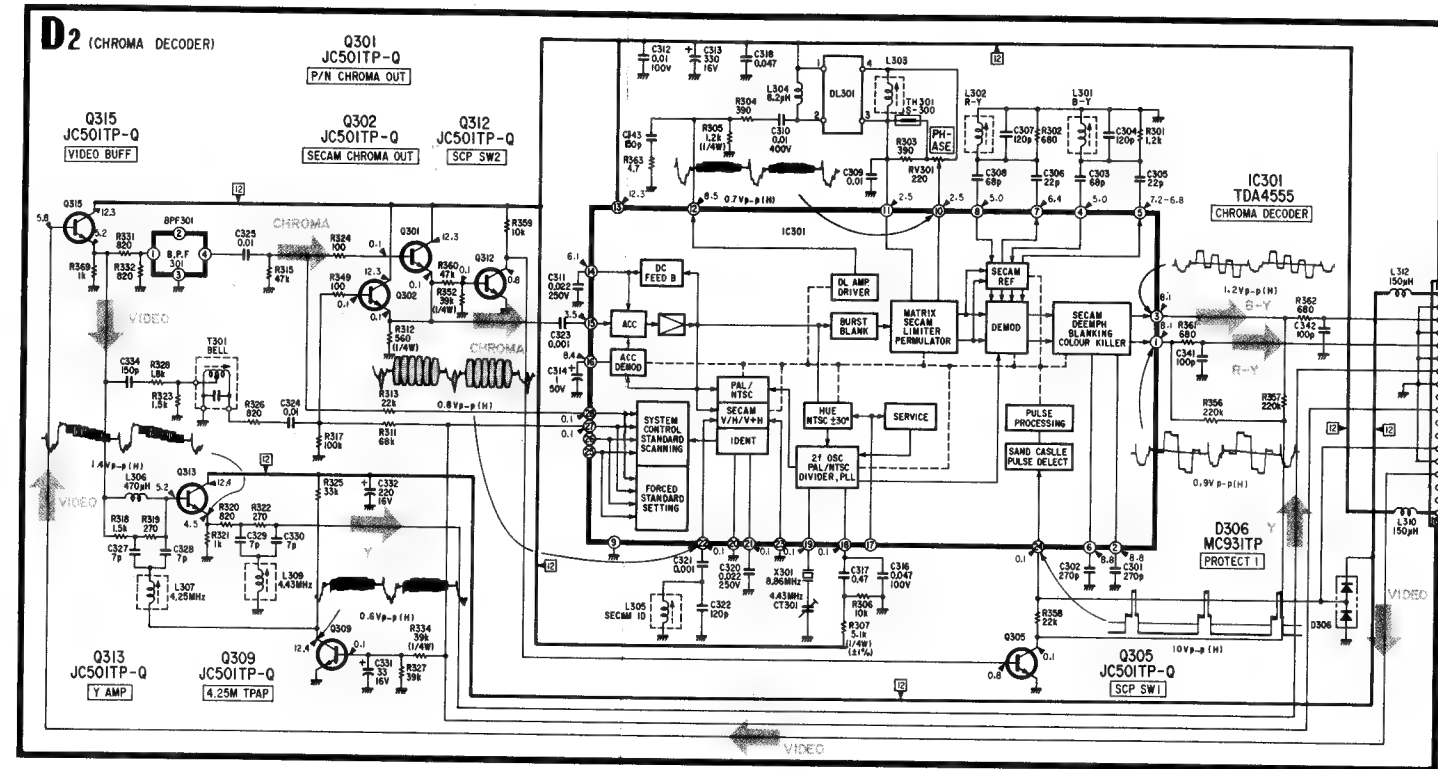
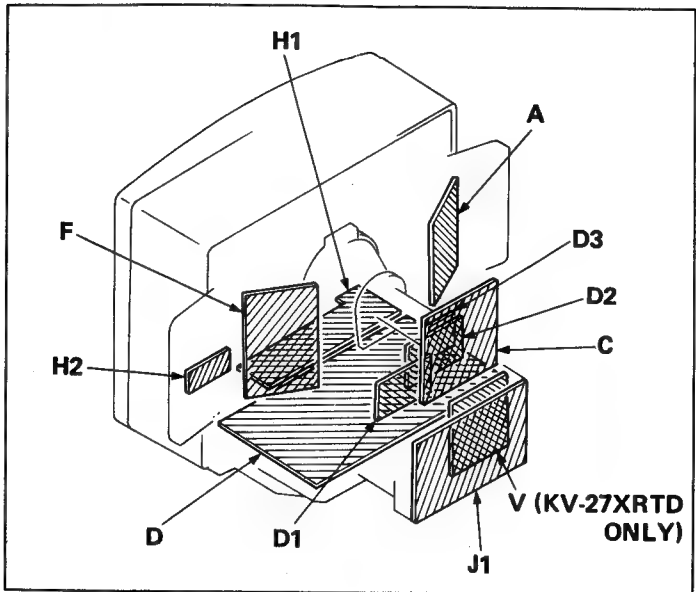
A (BAND S







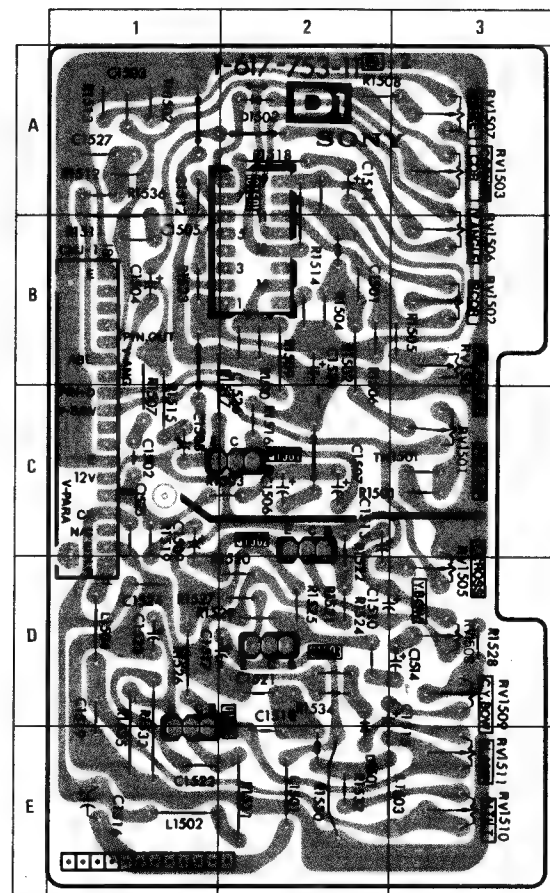




# KV-27XRD/27XRTD/RM-664

**D1**

[PIN AMP]



**PIN PHASE** RV1504 = B-3

Adjust PIN PHASE with RV1504.



**PIN AMP** RV1501 = C-3

Adjust PIN AMP with RV1501.



**V. ANGLE** RV1506 = B-3

Adjust V. ANGLE with RV1506.



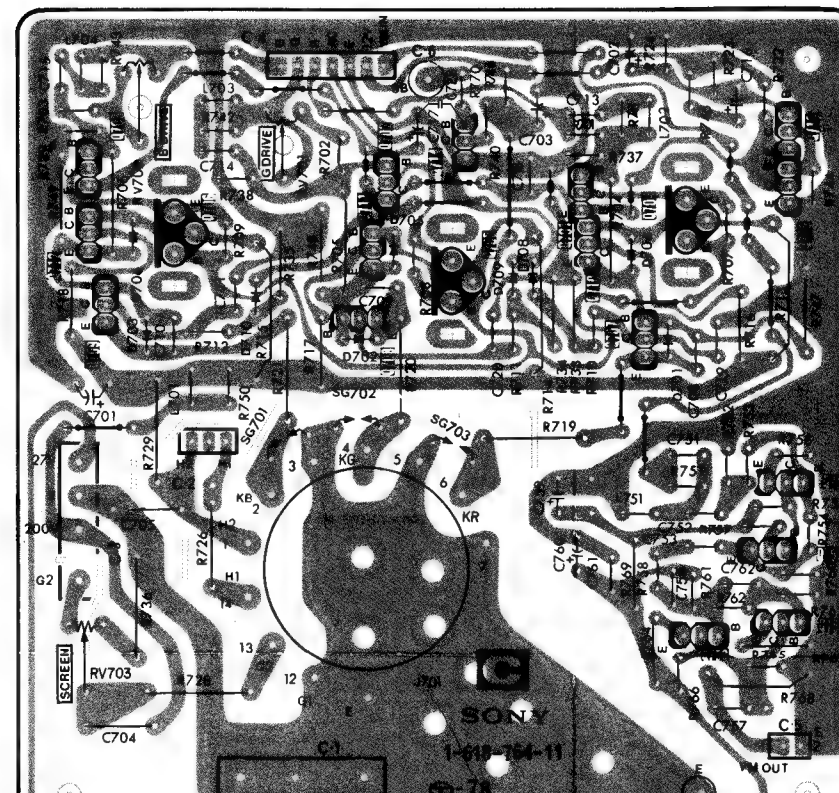
**PIN CORRECT** RV1502 = B-3

Adjust PIN CORRECT with RV1502.



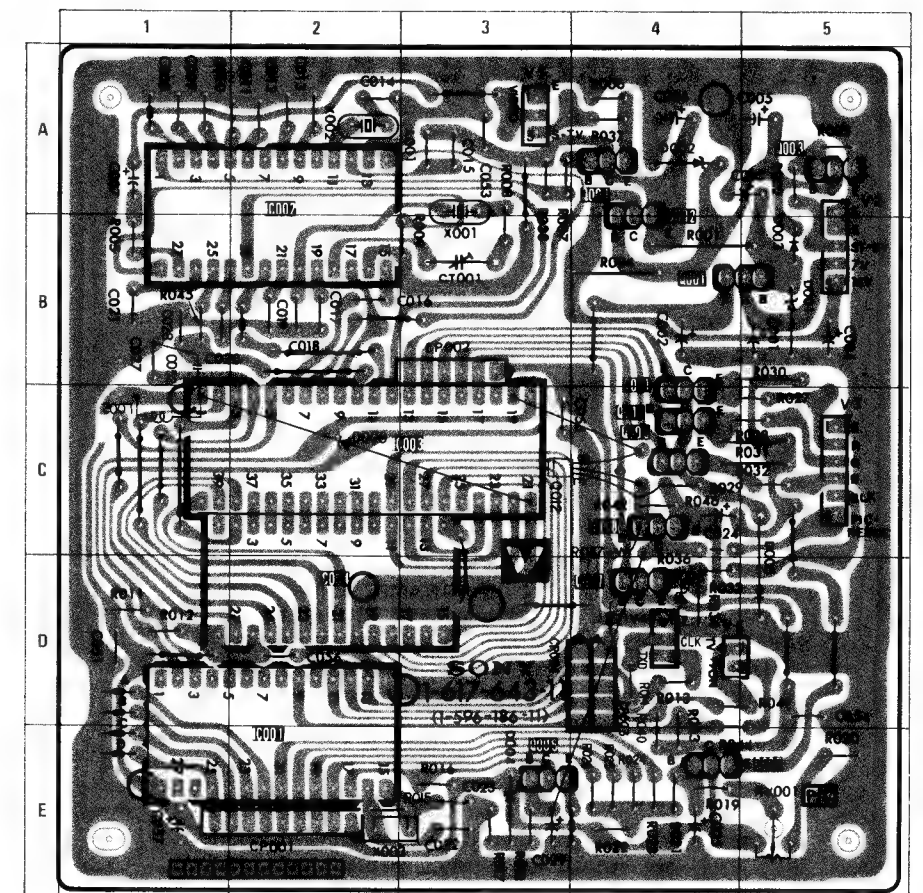
**C**

[R.G.B OUT]



**V**

[CCT, VIDEO PROCESSOR] KV-27XRTD ONLY

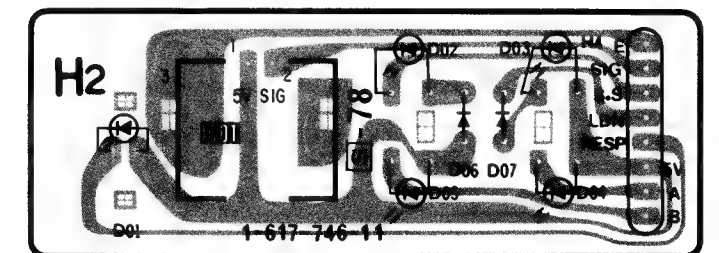


V-1 = A-3, IC002 = B-2, CT001 = B-3

1. Disconnect V-1 connector of V board.
2. Connect frequency counter across pin ① of IC002 and ground.
3. Adjust CT001 for 6.0MHz  $\pm$  2.0kHz on the frequency counter.

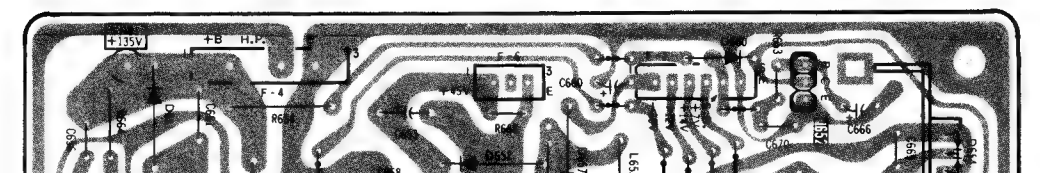
**H2**

[R/C RECEIVE]



**F**

[REG OUT]



R0410	B-5	R053	C-8	R437	C-3	R562	F-6	THERMISTOR	
R0411	B-5	R054	D-8	R438	C-3	R563	F-6	TH560 H-6	
R0412	B-5	R055	B-10	R440	A-5	R564	E-6	CONDUCTOR SIDE	
R0413	B-5	R056	B-10	R441	A-5	R565	E-6		
R0501	H-4	R057	C-11	R442	A-5	R566	F-7		
R0502	H-3	R058	C-11	R443	A-5	R567	G-7		
R0503	I-7	R060	A-9	R444	A-4	R568	I-5		
R0504	I-3	R061	C-10	R445	B-4	R569	H-4		
R0505	I-4	R062	C-7	R447	B-6	R570	F-6		
R0506	J-4	R063	B-9	R448	B-6	R571	H-5		
R0507	I-3	R064	A-12	R449	B-5	R572	H-6		
R0508	D-5	R065	A-10	R450	B-6	R573	H-6		
R0509	G-4	R066	A-10	R451	B-5	R574	H-7		
R0560	E-6	R067	A-9	R452	B-5	R575	H-5		
R0561	H-4	R068	A-9	R454	C-6	R576	H-7		
R0562	G-7	R069	A-11	R455	C-5	R577	E-5		
R0563	F-6	R070	D-9	R456	C-5	R578	E-8		
R0564	F-6	R071	C-8	R457	B-5	R579	H-5		
R0801	F-10	R078	C-10	R458	B-5	R580	F-8		
R0802	F-10	R079	C-10	R459	A-5	R583	F-5		
R0803	3	R080	C-13	R460	A-4	R584	G-7		
R0804		R081	B-12	R461	A-6	R585	F-6		
R0805		R082	B-12	R464	B-4	R586	F-6		
R0805		J-8	R083	A-13	R465	C-4	R587	E-5	
		R084	A-9	R468	C-4	R588	H-4		
		R271	I-1	R501	H-5	R589	H-3		
		R272	G-1	R502	H-3	R801	H-10		
		R273	I-1	R503	E-4	R802	H-11		
		R274	H-2	R504	H-3	R803	H-10		
		R275	H-2	R505	H-3	R804	I-10		
		R278	H-2	R506	H-3	R805	J-11		
		R279	I-1	R507	H-4	R806	I-9		
		R280	H-2	R508	H-3	R807	I-10		
		R281	G-1	R509	J-4	R808	J-9		
		R284	H-1	R510	H-8	R809	G-9		
		R285	H-1	R511	J-5	R810	H-9		
		R287	I-1	R512	J-5	R811	H-10		
		R288	H-2	R513	J-5	R812	F-9		
		R289	I-1	R514	H-8	R813	H-11		
		R401	D-4	R515	J-6	R814	G-9		
		R402	D-4	R516	J-6	R815	F-13		
		R403	D-2	R517	J-7	R816	E-13		
		R404	D-1	R518	I-7	R817	F-11		
		R405	D-2	R519	J-7	R818	F-11		
		R406	D-1	R520	I-8	R819	G-10		
		R407	D-1	R521	I-7	R820	G-13		
		R408	D-1	R522	J-7	R821	J-8		
		R409	D-4	R523	J-8	R822	H-8		
		R410	B-1	R525	I-7	R823	G-13		
		R411	B-1	R526	H-7	R824	G-9		
		R412	C-1	R527	J-3	R825	J-11		
		R413	C-1	R528	J-3			VARIABLE RESISTOR	
		R414	D-3	R529	I-3				
		R415	D-2	R530	I-3				
		R416	G-3	R531	J-3				
		R417	G-4	R532	I-3				
		R418	A-2	R533	I-3				
		R419	C-3	R534	I-5				
		R420	B-7	R535	H-6				
		R421	B-7	R536	I-4				
		R422	F-2	R537	I-5				
		R423	F-2	R538	I-6				
		R424	A-1	R539	I-4				
		R425	C-2	R540	I-6				
		R426	B-7	R541	I-4				
		R427	A-6	R542	I-3				
		R428	G-4	R543	I-4				
		R429	G-4	R544	H-6				
		R430	E-4	R545	H-4				
		R431	B-8	R546	I-7				
		R432	D-1	R547	I-4				
		R433	A-2	R548	J-4				
		R434	A-2	R549	I-3				
		R435	A-2	R550	D-5				
		R436	A-3	R552	E-7				
				R560	E-7				
				R561	F-7				

**VARIABLE RESISTOR**

RV401 G-3  
RV402 G-3  
RV501 J-5  
RV502 H-5  
RV503 H-4  
RV560 H-8  
RV801 G-10

**SPARK GAP**

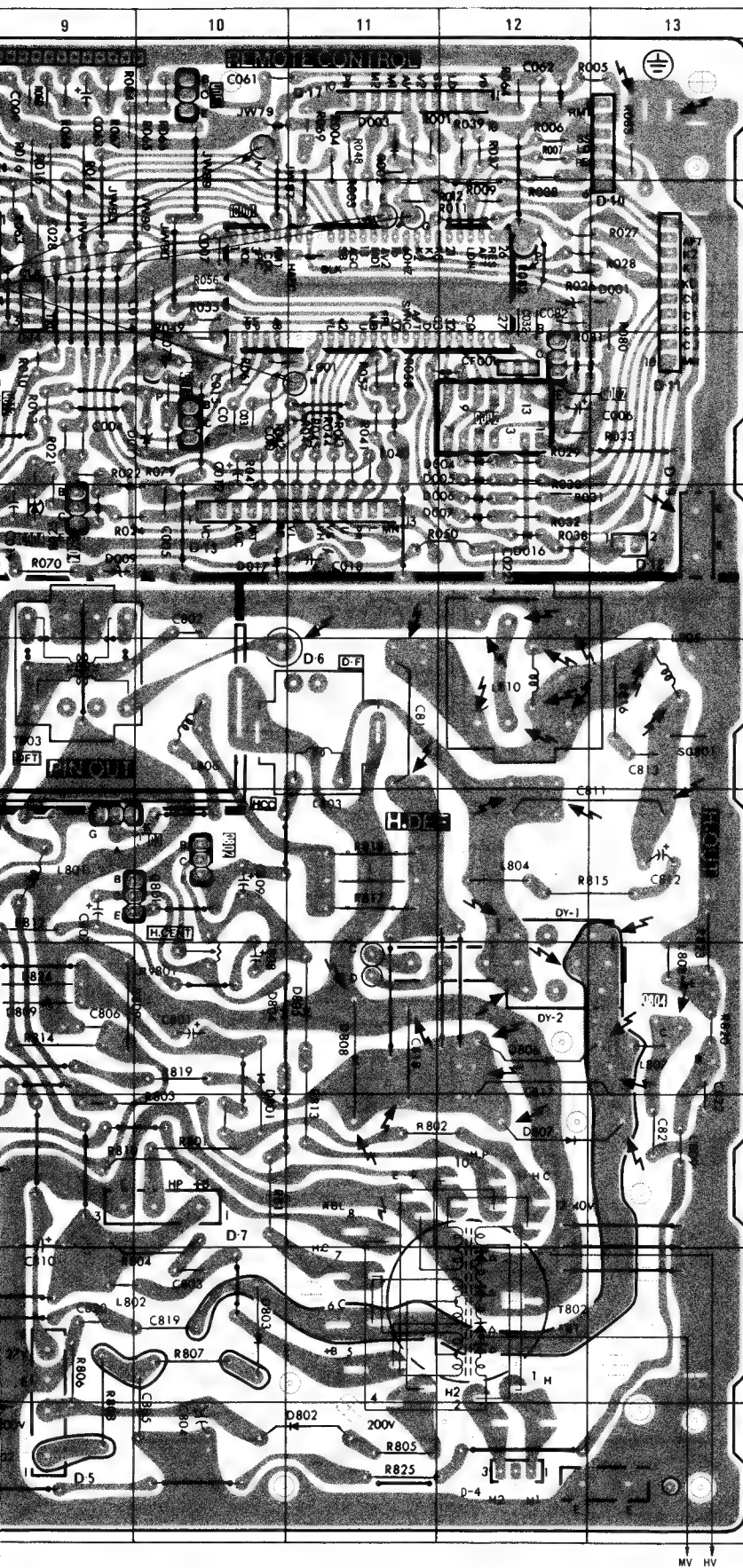
SG801 E-13

**TRANSFORMER**

T801 I-8  
T802 I-12  
T803 E-9



**D**



### H FREQUENCY

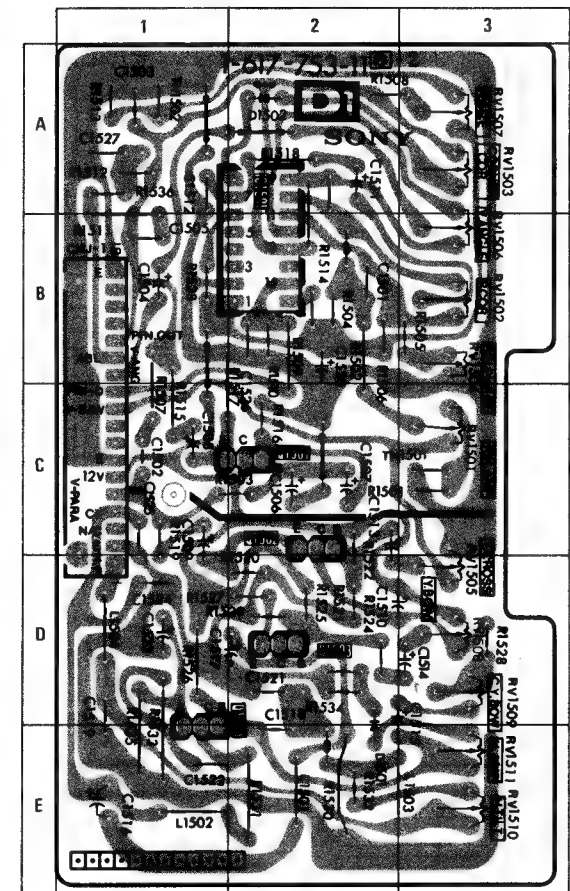
IC501 = I-5, RV501 = J-5

1. Connect a jumper to IC501 pin (5) and the ground

CAPACITOR		C434 A-4		C435 A-4		C436 B-4		C437 D-1		C438 D-5		C501 H-4		C502 H-3		C503 J-4		C504 J-6		C505 J-5		C506 J-5		C507 I-8		C508 J-8		C509 I-6		C511 H-7		C512 I-3		C513 I-5		C514 I-5		C515 I-5		C516 J-4		C517 H-5		C518 H-6		C519 I-6		C520 I-4		C521 I-6		C522 I-6		C523 H-6		C526 J-3		C527 D-6		C528 J-6		C529 C-8		C530 D-6		C560 G-8		C561 F-7		C562 E-6		C563 F-7		C564 H-4		C565 H-4		C566 I-4		C567 F-6		C568 E-5		C569 H-5		C570 E-8		C571 H-6		C572 E-7		C801 G-10		C802 D-10		C803 I-10		C804 J-10		C805 J-10		C806 G-9		C807 F-9		C808 G-10		C809 F-10		C810 I-9		C811 F-13		C812 F-13		C813 E-13		C814 F-9		C815 E-11		C817 G-12		C818 G-11		C819 I-10		C820 I-9		C821 H-13		C822 H-13		C823 I-8		C824 I-8		C424 A-3		C425 B-3		C426 B-3		C427 A-5		C428 A-4		C429 B-4		C430 C-6		C431 C-6		C432 C-5		C433 B-6																																																																																																																																																																																																																																															
CONNECTOR		CNP1 H-6		CNP2 F-2		CNP3 E-1		CNP4 G-3		D1 A-1		D2 A-5		D3 E-3		D4 J-12		D5 J-9		D6 E-11		D7 H-10		D8 D-8		D9 D-7		D10 A-13		D11 B-13		D12 D-13		D13 D-10		D14 B-9		D15 J-3		D16 G-2		D17 A-11		D18 I-2		D19 D-13		D20 B-4		D21 A-6		D22 B-8		D24 F-3		D25 C-7		D26 J-2		DY1 F-12		DY2 G-12		DY3 E-7		DIODE		D001 B-12		D002 B-8		D003 A-11		D004 C-12		D005 C-12		D006 D-12		D007 D-12		D008 A-8		D009 D-9		D011 C-10		D015 C-8		D016 D-12		D017 D-10		D271 G-2		D401 C-1		D402 C-1		D403 A-1		D404 B-1		D405 E-3		D406 C-2		D407 B-1		D408 B-1		D409 A-2		D412 B-6		D413 B-6		D414 B-5		D415 C-5		D416 C-6		D417 B-6		D418 E-2		D419 D-3		D421 B-4		D422 C-5		D423 C-5		D424 C-6		D425 E-2		D426 E-2		D427 E-2		D428 D-2		D501 E-4		D502 H-3																																																																																																																																																																																																																																																							
THERMISTOR		TH560 H-6		CONDUCTOR SIDE		R439 B-7		R469 B-2		R553 J-5		D511 D-5		R562 F-6		R563 F-6		R564 E-6		R565 E-6		R566 F-7		R567 G-7		R568 I-5		R569 H-4		R570 F-6		R571 H-5		R572 H-6		R573 H-6		R574 H-7		R575 H-5		R576 H-7		R577 E-5		R578 E-8		R579 H-5		R580 F-8		R583 F-5		R584 G-7		R585 F-6		R586 F-6		R587 E-5		R588 H-4		R589 H-3		R801 H-10		R802 H-11		R803 H-10		R804 I-10		R805 J-11		R806 I-9		R807 I-10		R808 J-9		R809 G-9		R810 H-9		R811 H-10		R812 F-9		R813 H-11		R814 G-9		R815 F-13		R816 E-13		R817 F-11		R818 F-11		R819 G-10		R820 G-13		R821 J-8		R822 H-8		R823 G-13		R824 G-9		R825 J-11		VARIABLE RESISTOR		RV401 G-3		RV402 G-3		RV501 J-5		RV502 H-5		RV503 H-4		RV560 H-8		RV801 G-10		SPARK GAP		SG801 E-13		TRANSFORMER		T801 I-8		T802 I-12		T803 E-9																																																																																																																																																																																																																																																													
RESISTOR		R001 A-11		R002 A-11		R003 B-11		R004 A-11		R005 A-13		R006 A-12		R007 A-12		R008 A-12		R009 B-12		R010 C-9		R011 B-12		R012 B-12		R013 C-9		R014 C-9		R015 A-9		R016 A-9		R017 A-8		R018 A-8		R019 A-8		R020 A-8		R021 A-8		R022 A-8		R023 A-8		R024 A-8		R025 A-8		R026 B-12		R027 B-12		R028 B-12		R029 C-12		R030 D-12		R031 D-12		R032 D-12		R033 C-12		R035 A-2		R036 A-2		R037 A-12		R038 D-12		R039 A-12		R040 C-11		R041 C-11		R042 C-10		R043 C-11		R044 C-11		R045 C-11		R046 C-11		R047 C-10		R048 A-11		R049 C-10		R050 D-12		R052 F-9		R053 C-8		R054 D-8		R055 B-10		R056 B-10		R057 C-11		R058 C-11		R060 A-9		R061 C-10		R062 C-7		R063 B-9		R064 A-12		R065 A-10		R066 A-10		R067 A-9		R068 A-9		R069 A-11		R070 D-9		R071 C-8		R078 C-10		R079 C-10		R080 C-13		R081 B-12		R082 B-12		R083 A-13		R084 A-9		R271 I-1		R272 G-1		R273 I-1		R274 H-2		R275 H-2		R278 H-2		R279 I-1		R280 H-2		R281 G-1		R284 H-1		R285 H-1		R287 I-1		R288 H-2		R289 I-1		R401 D-4		R402 D-4		R403 D-2		R404 D-1		R405 D-2		R406 D-1		R407 D-1		R408 D-1		R409 D-4		R410 B-1		R411 B-1		R412 C-1		R413 C-1		R414 D-3		R415 D-2		R416 G-3		R417 G-4		R418 A-2		R419 C-3		R420 B-7		R421 B-7		R422 F-2		R423 F-2		R424 A-1		R425 C-2		R426 B-7		R427 A-6		R428 G-4		R429 G-4		R430 E-4		R431 B-8		R432 D-1		R433 A-2		R434 A-2		R435 A-2		R436 A-3		R442 A-5		R443 A-5		R444 A-4		R445 B-4		R447 B-6		R448 B-6		R449 A-5		R450 B-6		R451 B-5		R452 B-5		R454 C-6		R455 C-5		R456 C-5		R457 B-5		R458 B-5		R459 A-5		R460 A-4		R461 A-6		R464 B-4		R465 C-4		R468 C-4		R501 H-5		R502 H-3		R503 E-4		R504 H-3		R505 H-3		R506 H-3		R507 H-4		R508 H-3		R509 J-4		R510 H-8		R511 J-5		R512 J-5		R513 J-5		R514 H-8		R515 J-6		R516 J-6		R517 J-7		R518 I-7		R519 J-7		R520 I-8		R521 I-7		R522 J-7		R523 J-8		R525 I-7		R526 H-7		R527 J-3		R528 J-3		R529 I-3		R530 I-3		R531 J-3		R532 I-3		R533 I-3		R534 I-5		R535 H-6		R536 I-4		R537 I-5		R538 I-6		R539 I-4		R540 I-6		R541 I-4		R542 I-3		R543 I-4		R544 H-6		R545 H-4		R546 I-7		R547 I-4		R548 J-4		R549 I-3		R552 D-5		R556 E-7		R561 F-7	

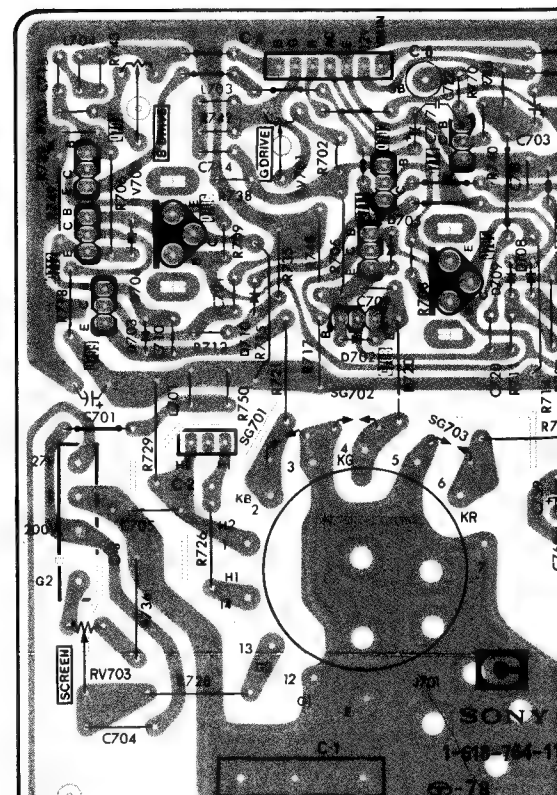
D1

[PIN AMP]



C

[R.G.B OUT]



**PIN**

Adjus

**PIN**

**Adjust**

V. A

**Adjust**

PIN

**Adius**

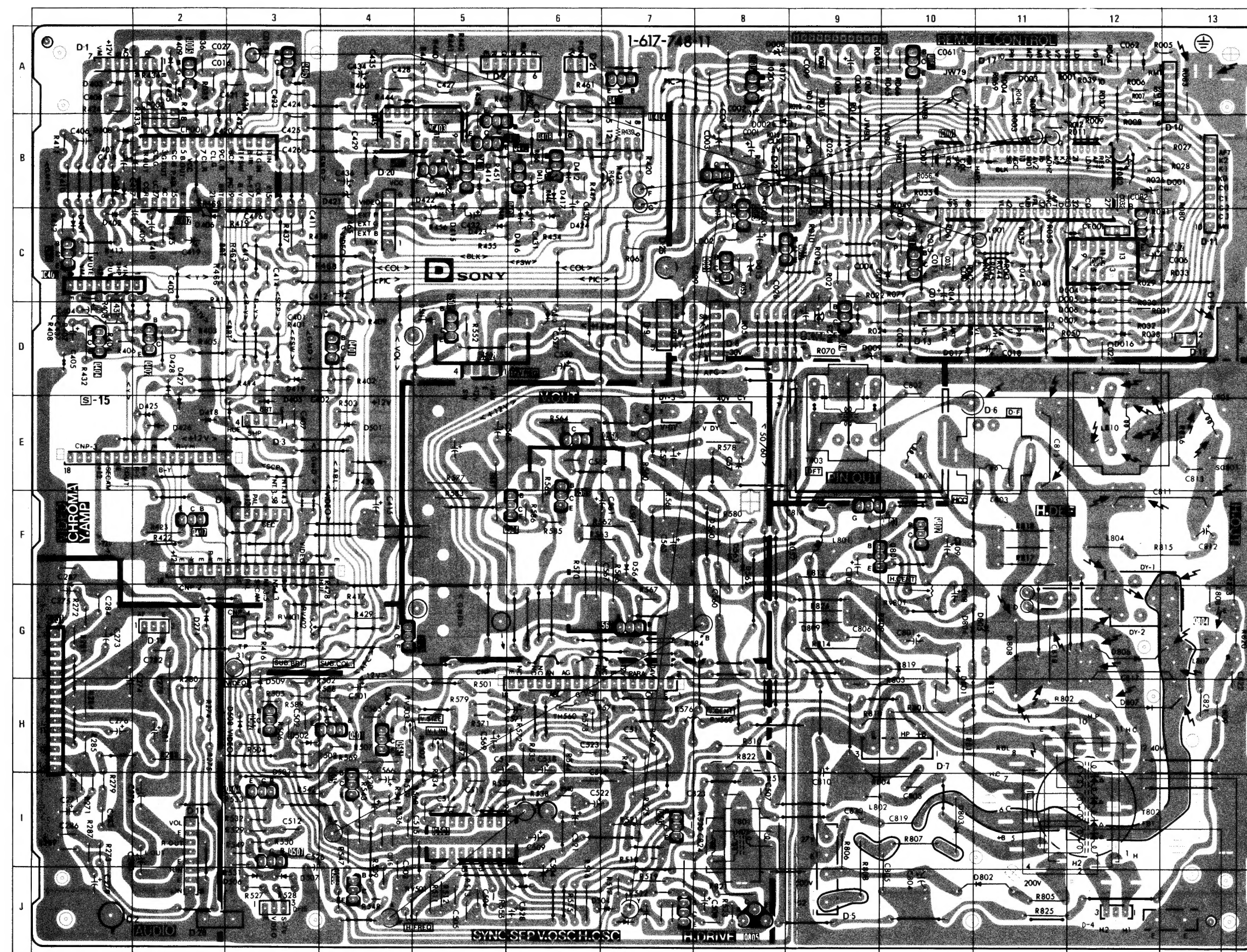


# MOUNTING DIAGRAMS

Note: All mounting diagrams are viewed from conductor side.

D

[CONTROL, MEMORY, R.G.B. INTERFACE]  
[AUDIO OUT, H/V DRIVE, PIN OUT]



D

CAPACITOR			CONNECTOR		
C001	B-8	C434	A-4	D503	H-3
C002	B-8	C435	A-4	D504	J-7
C003	B-8	C436	B-4	D506	J-3
C004	C-9	C437	D-1	D507	J-3
C005	D-10	C438	D-5	D508	H-3
C006	C-12	C501	H-4	D509	H-3
C007	B-10	C502	H-3	D510	D-6
C009	A-9	C503	J-4	D560	F-8
C010	C-10	C504	J-6	D561	F-7
C011	C-10	C505	J-5	D562	F-8
C012	C-10	C506	J-5	D563	F-8
C013	A-3	C507	I-8	D564	F-7
C014	C-10	C508	J-8	D801	G-10
C015	C-10	C509	I-6	D802	J-11
C016	A-3	C511	H-7	D803	I-10
C018	D-11	C512	I-3	D804	G-10
C019	D-9	C513	I-5	D805	G-11
C020	C-8	C514	I-5	D806	G-12
C022	D-12	C515	I-5	D807	H-12
C026	C-8	C516	J-4	D808	G-11
C027	A-2	C517	H-5	D809	G-11
C028	B-9	C518	H-6		
C031	C-10	C519	I-6		
C032	B-12	C520	I-4		
C061	A-10	C521	I-6		
C062	A-12	C522	I-6		
C063	A-9	C523	H-6		
C271	I-1	C526	J-3		
C273	G-1	C527	D-6		
C274	H-1	C528	J-6		
C275	G-1	C529	C-8		
C276	H-1	C530	D-6		
C278	I-2	C560	G-8		
C279	J-1	C561	F-7		
C280	I-2	C562	E-6		
C281	H-2	C563	F-7		
C282	G-2	C564	H-4		
C283	I-1	C565	H-4		
C284	G-1	C566	I-4		
C285	I-1	C567	F-6		
C286	I-1	C568	E-5		
C287	F-1	C569	H-5		
C401	D-4	C570	E-8		
C402	D-4	C571	H-6		
C403	D-2	C572	E-7		
C404	D-1	C801	G-10		
C405	D-1	C802	D-10		
C406	B-1	C803	I-10		
C407	E-3	C804	J-10		
C408	A-1	C805	J-10		
C409	C-2	C806	G-9		
C410	C-2	C807	F-9		
C411	C-3	C808	G-10		
C412	C-4	C809	F-10		
C413	C-3	C810	I-9		
C414	C-3	C811	F-13		
C415	F-4	C812	F-13		
C416	C-3	C813	E-13		
C417	C-2	C814	F-9		
C418	B-1	C815	E-11		
C419	C-2	C817	G-12		
C420	B-2	C818	G-11		
C421	A-3	C819	I-10		
C422	B-3	C820	I-9		
C423	A-3	C821	H-13		
C424	A-3	C822	H-13		
C425	B-3	C823	I-8		
C426	B-3	C824	I-8		
C427	A-5				
C428	A-4				
C429	B-4				
C430	C-6				
C431	C-6				
C432	C-5				
C433	B-6				
FILTER					
CF001	C-12				
DIODE					
D001	B-12				
D002	B-8				
D003	A-11				
D004	C-12				
D005	C-12				
D006	D-12				
D007	D-12				
D008	A-8				
D009	D-9				
D011	C-10				
D015	C-8				
D016	D-12				
D017	D-10				
D271	G-2				
D401	C-1				
D402	C-1				
D403	A-1				
D404	B-1				
D405	E-3				
D406	C-2				
D407	B-1				
D408	B-1				
D409	A-2				
D412	B-6				
D413	B-6				
D414	B-5				
D415	C-5				
D416	C-6				
D417	B-6				
D418	E-2				
D419	D-3				
D421	B-4				
D422	C-5				
D423	C-5				
D424	C-6				
D425	E-2				
D426	E-2				
D427	E-2				
D428	D-2				
D501	E-4				
D502	H-3				
IC					
IC001	B-11				
IC002	C-12				
IC004	D-9				
IC251	G-1				
IC401	C-1				
IC402	B-2				
IC403	B-5				
IC404	B-7				
IC501	I-5				
IC502	D-5				
MODULE					
IC401	C-1				
COIL					
L001	C-11				
L002	C-8				
L401	2				
L801	3				
L802	I-9				
L803	11				
L804	12				
L805	E-13				
L806	E-10				
L807	G-13				
L808	G-13				
L809	H-13				
L810	E-12				
TRANSISTOR					
Q001	C-8				
Q002	C-12				
Q003	C-8				
Q004	D-9				
Q005	A-2				
Q006	A-8				
Q011	C-10				
Q012	C-8				
Q061	A-10				
Q401	D-4				
Q402	D-2				
Q403	C-1				
Q404	D-1				
Q405	A-3				
Q406	A-7				
Q407	F-2				
Q408	B-6				
Q409	B-6				

SUB BRIGHT

IC402 = B-2, RV401 = G-3

SUB COLOR ADJUSTMENT

IC402 = B-2, RV402 = G-3

H FREQUENCY

IC501 = I-5, RV501 = J-5

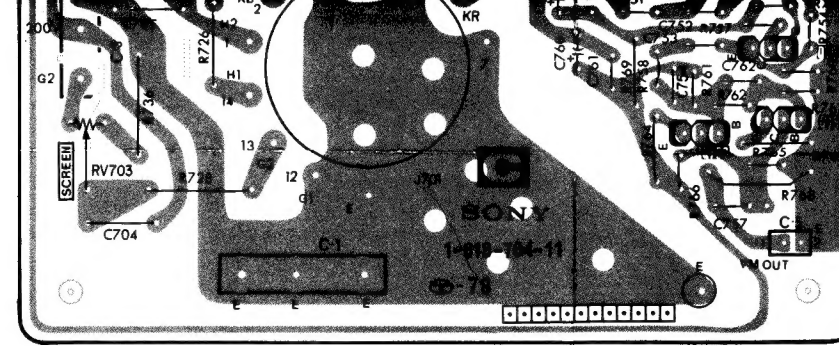
1. Receive a dot signal.

1. Receive a color bar signal.

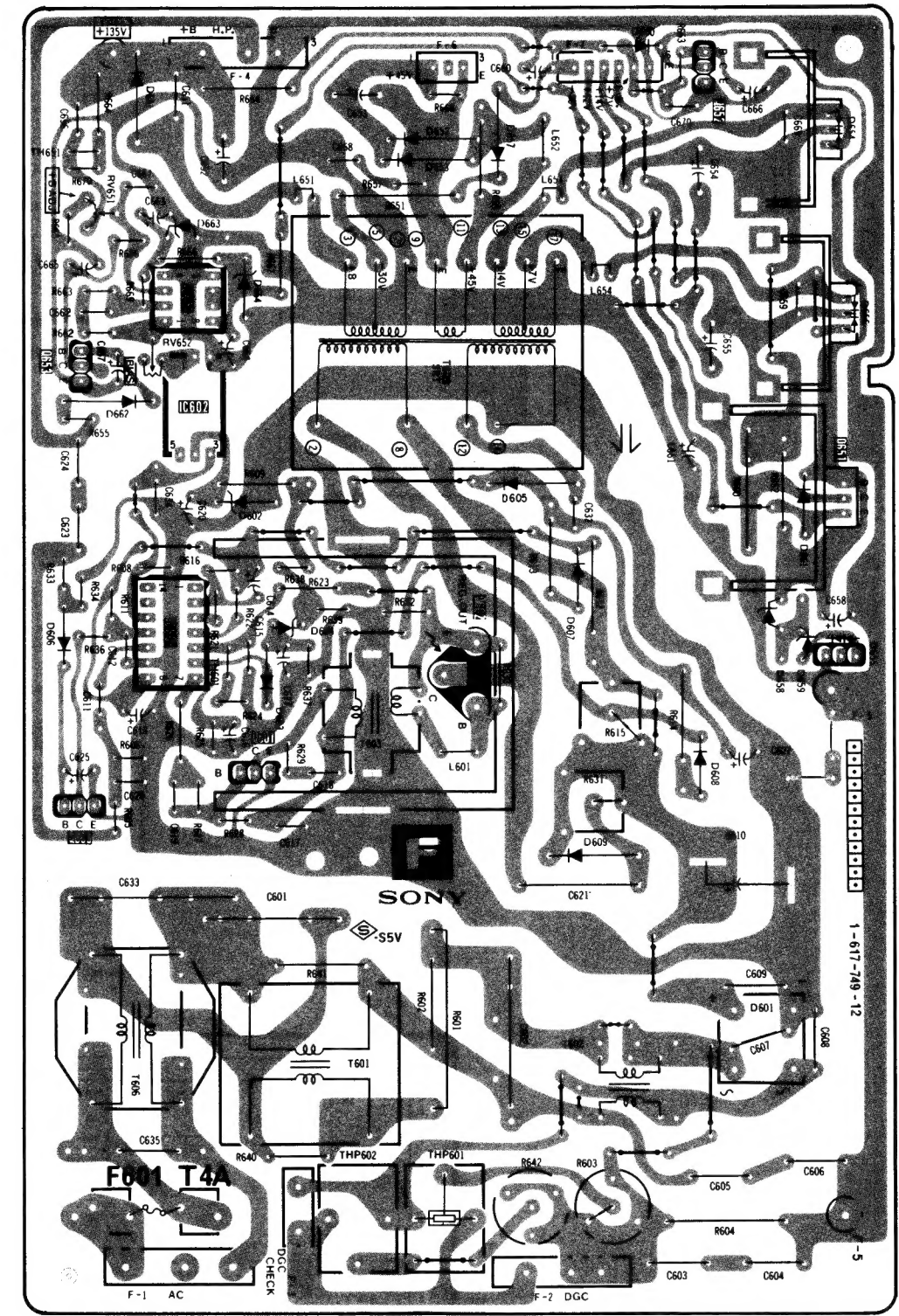
1. Connect a jumper to IC501 pin (5) and the ground.



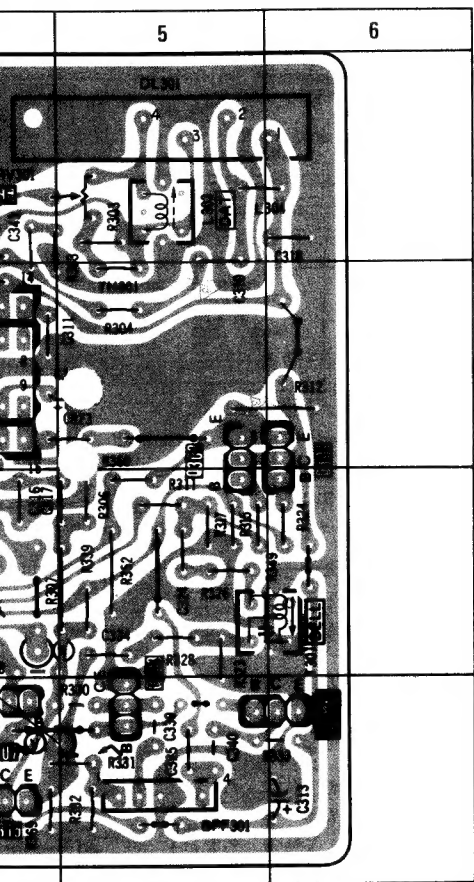
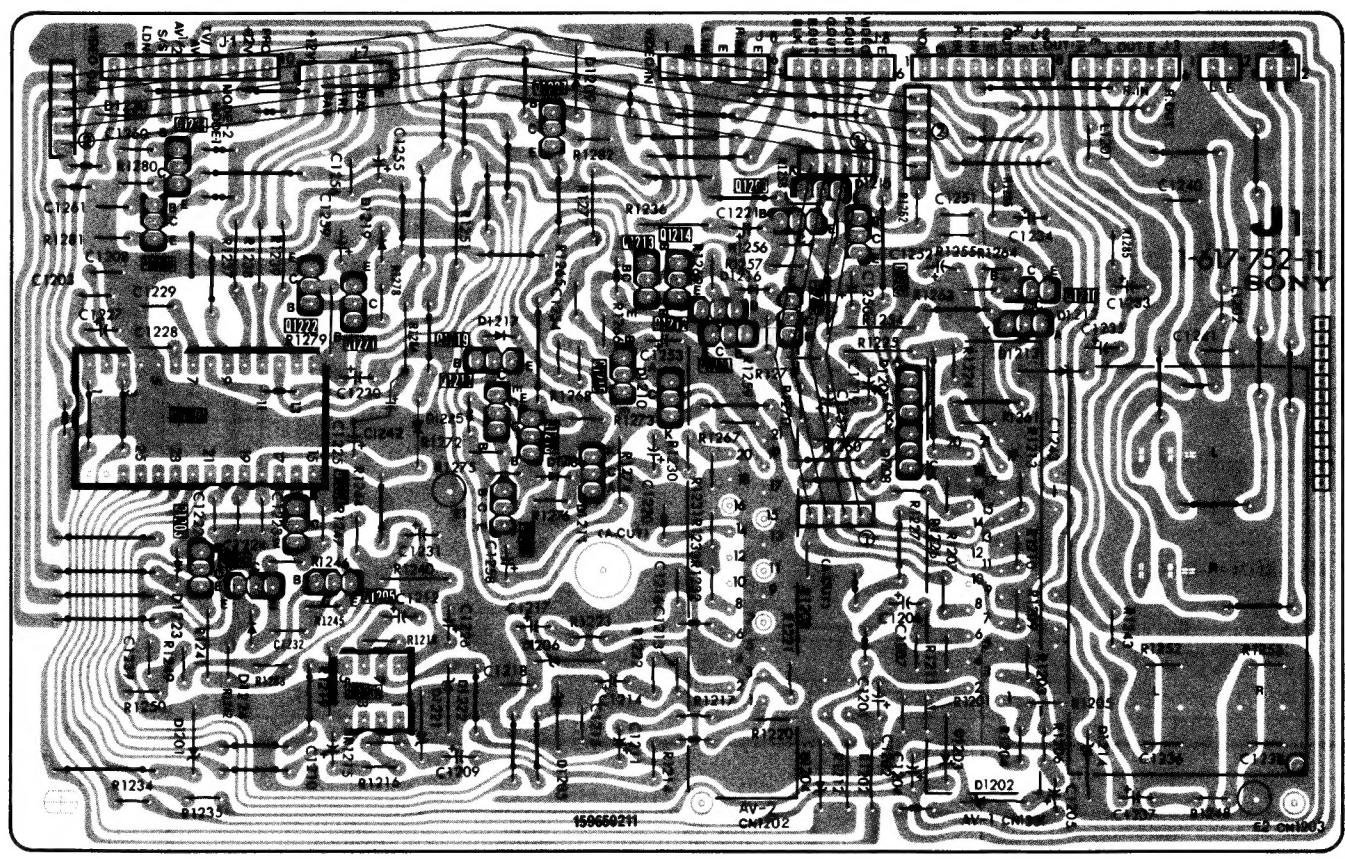
R04	C-10	R434	A-2	R549	I-3	T803	E-9
R048	A-11	R435	A-2	R552	D-5		
R049	C-10	R436	A-3	R560	E-7		
R050	D-12			R561	F-7		
R052	F-9						



**F** [REG OUT]

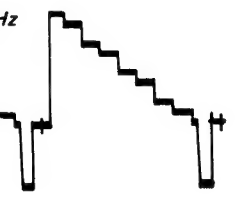


**J1** [INTERFACE TV/AV SW]

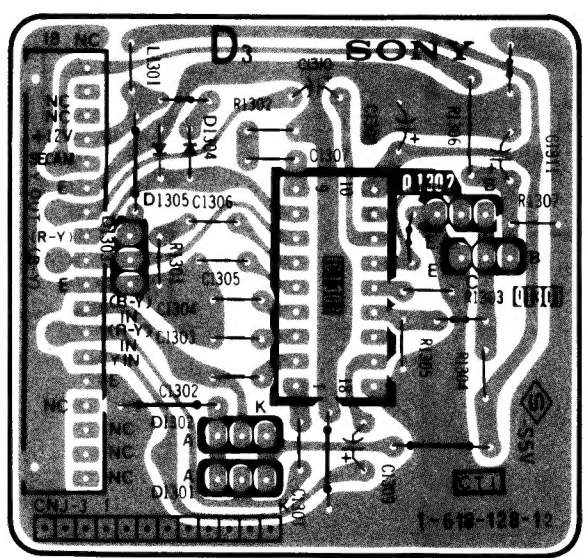


9 = C

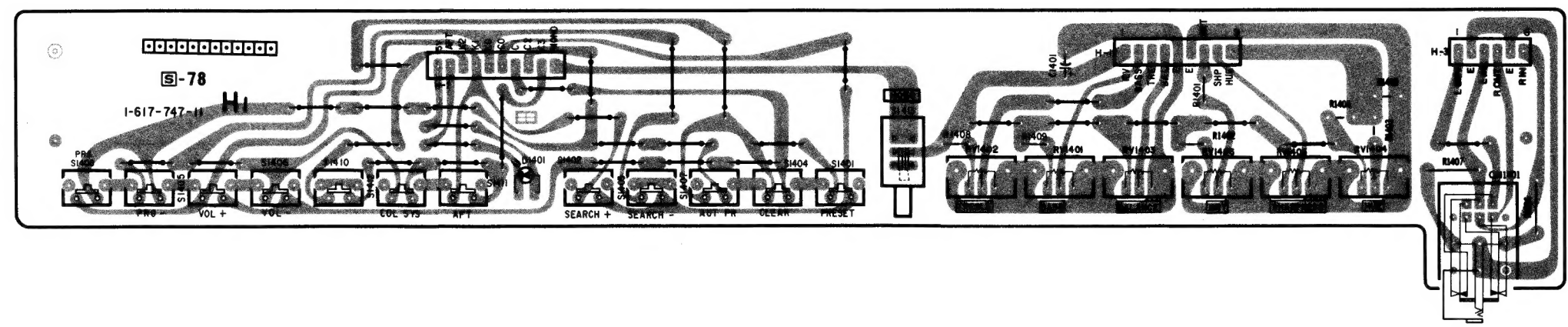
form on the oscilloscope  
13MHz component.



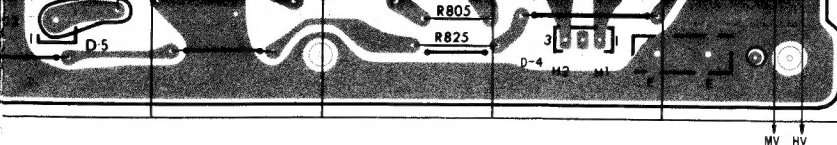
**D3** [CTI]



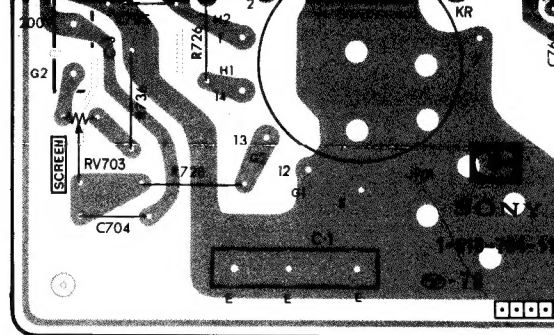
**H1** [CONTROL INDICATOR]







C429	B-4	CF001	C-12	D426	E-2	Q406	A-7	R047	C-10	R549	D-5	1803	E-9
C430	C-6			D427	E-2	Q407	F-2	R048	A-11	R552	E-7		
C431	C-6			D428	D-2	Q408	B-6	R049	C-10	R560	F-7		
C432	C-5			D501	E-4	Q409	B-6	R050	D-12	R561			
C433	B-6			D502	H-3			R052	F-9				



## H FREQUENCY

IC501 = I-5, RV501 = J-5

1. Connect a jumper to IC501 pin ⑤ and the ground.
2. Adjust H FREQUENCY VR (RV501) for stable picture.



fo: too low



fo: suitable

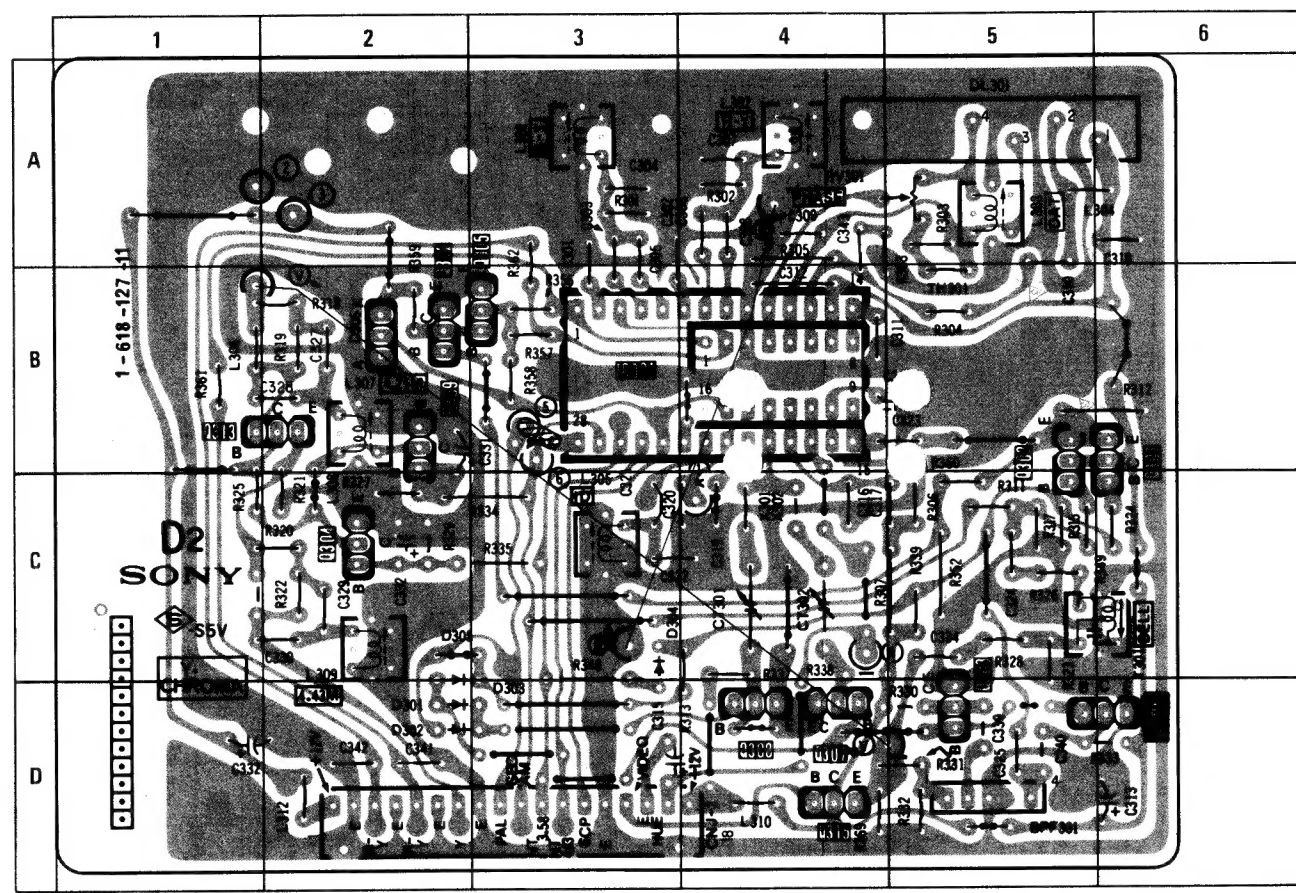


fo: too high

3. After completing this adjustment, disconnect a jumper wire from D board.

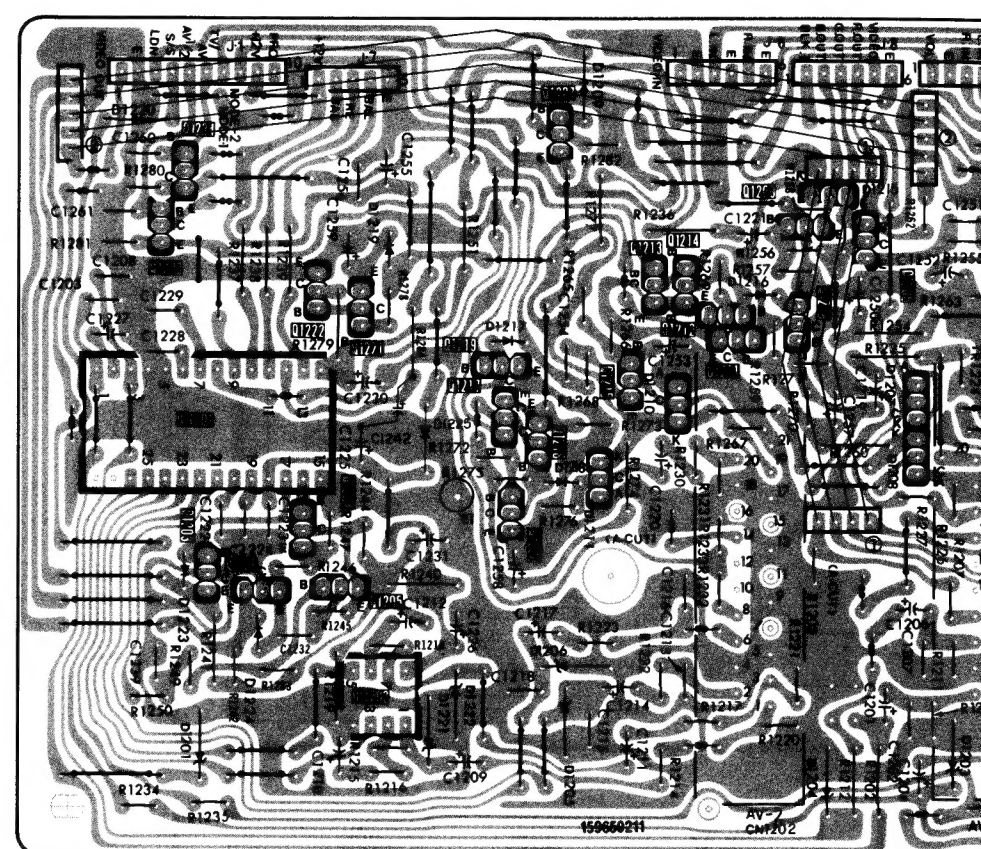
## D2

[CHROMA DECODER]



## J1

[INTERFACE TV/AV SW]



## REF OSC

IC301 = B-3, CT301 = C-4

1. Receive a color bar signal.
2. Ground pin ① of IC301 and turn color killer OFF.
3. Adjust CT301 so that the movement of picture on the CRT becomes the slowest.

## 1H DELAY LINE

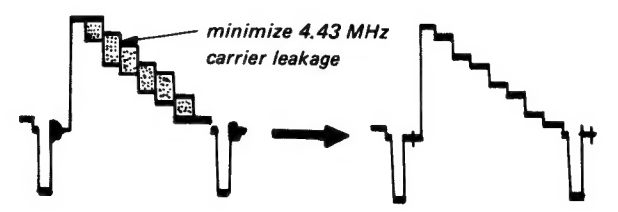
IC301 = B-3, L303 = A-5, RV301 = A-5

1. Receive a color bar signal.
2. Observe the pin ③ IC301 waveform on the oscilloscope, and adjust so that the chroma component becomes minimum with L303.
3. Get tracking with both L303 and RV301 as shown.

## Y TRAP

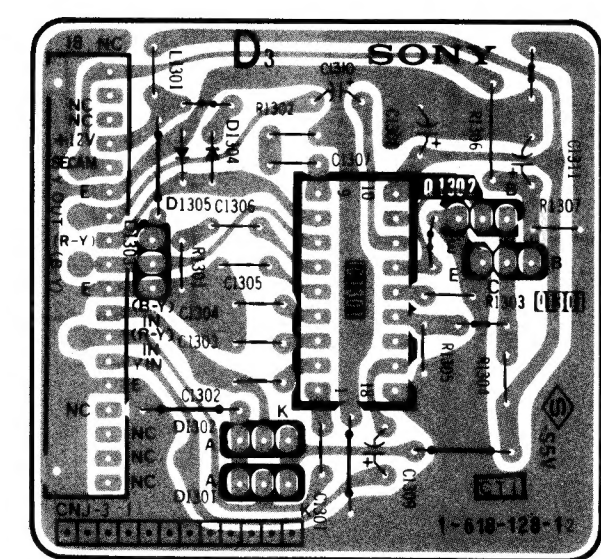
CNJ-2 = 3, L309 = C

1. Receive a color bar signal.
2. Observe the pin ⑦ CNJ-2 waveform on the oscilloscope and adjust L309 for minimum 4.43MHz component.



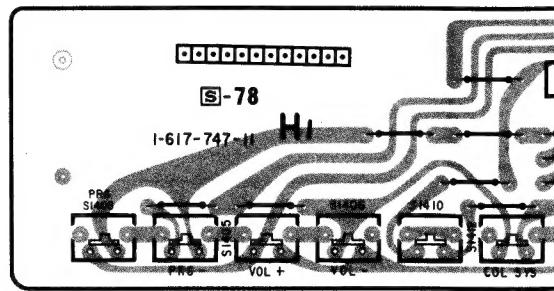
## D3

[CT1]



## H1

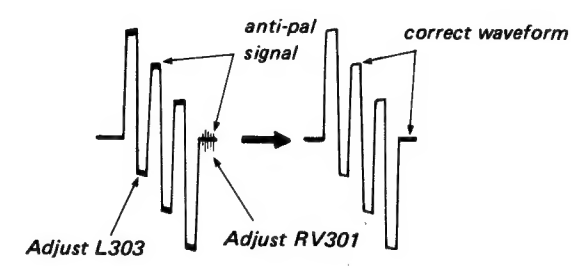
[CONTROL INDICATOR]



## MENT

L105 = D-5

if-air signal.  
for maximum clear-sound.





C429	B-4	CF001	C-12				
C430	C-6			D426	E-2	Q406	A-7
C431	C-6			D427	E-2		
C432	C-5			D428	D-2	Q407	F-2
C433	B-6			D501	E-4	Q408	B-6
				D502	H-3	Q409	B-6

**SUB BRIGHT**

IC402 = B-2, RV401 = G-3

1. Receive a dot signal.
2. **PICTURE** control . . . . . normal  
**COLOR** control . . . . . normal  
**BRIGHTNESS** control . . . . . center click
3. Connect an digital multimeter at pin (20) of IC402.
4. Adjust RV401 to 1.7V dc.

### SUB COLOR ADJUSTMENT

IC402 = B-2, RV402 = G-3

1. Receive a color bar signal.
2. PICTURE control . . . . . normal  
 COLOR control . . . . . normal  
 BRIGHTNESS control . . . . . center click
3. Connect an oscilloscope at pin ⑰ of IC402.
4. Adjust RV402 so that same level as shown.

H FREQUENCY	
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

IC501 = I-5, RV501 = J-5

1. Connect a jumper to IC501 pin (5) and the ground.
2. Adjust H FREQUENCY VR (RV501) for stable picture.



**fo: too low**



*fo: suitable*  
(*fo* = 15,700 ± 25Hz)

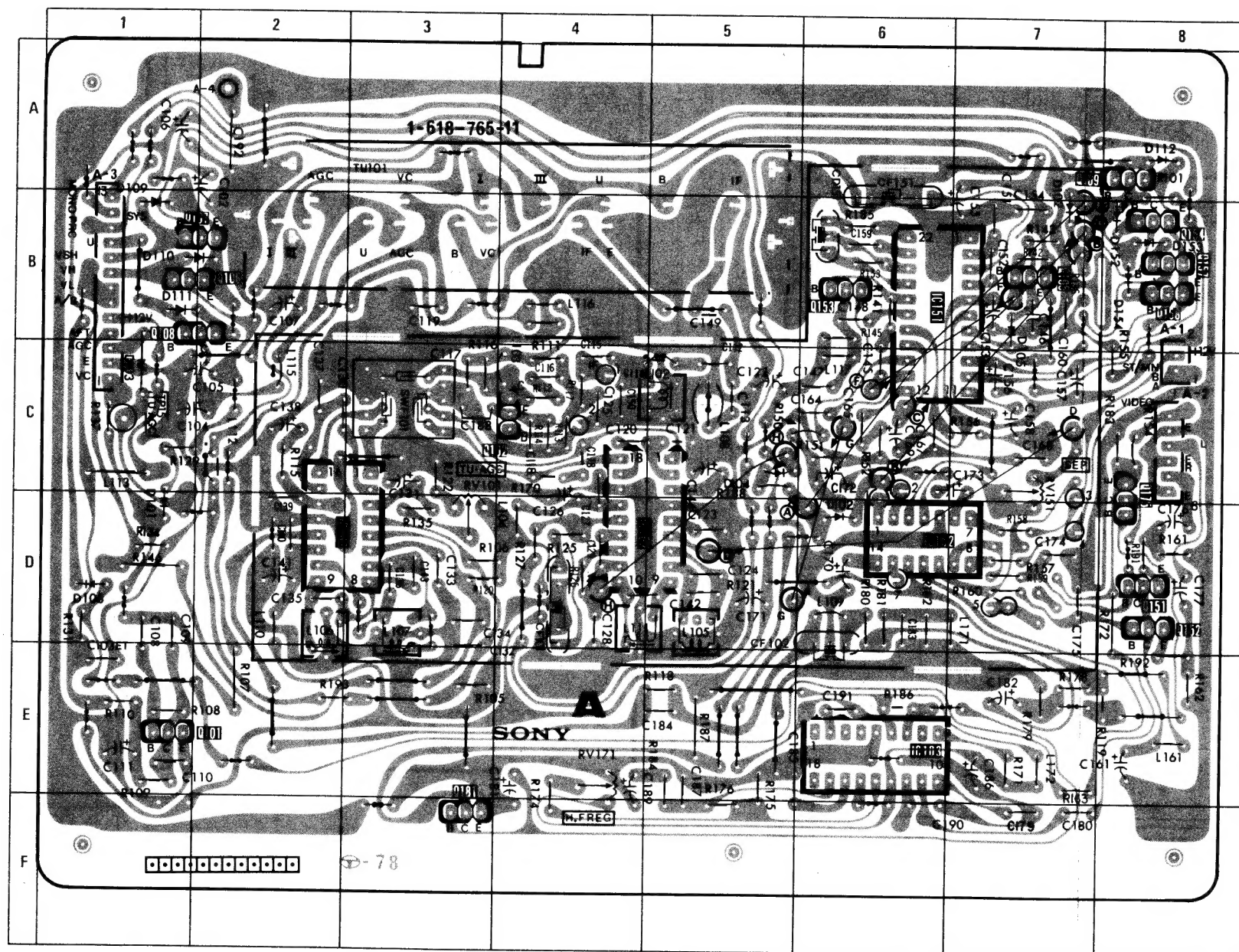
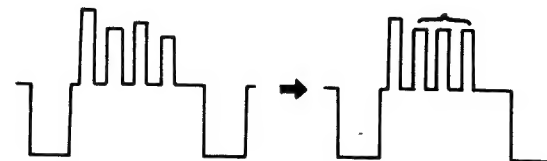


*fo: too high*

3. After completing this adjustment, disconnect a jumper wire from D board.

**A**

[BAND SW, VIF, QPT, SIF, ID SIF]



**TU. AGC**

RV101 = D-3

1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from picture.

### SEPARATION ADJUSTMENT

RV151 = C-7

1. Receive a stereo signal (L-CH 1kHz, R-CH 400Hz).
2. Confirm the stereo indicator.
3. Confirm the output 1kHz signal at pin ⑨ of IC152.
4. Adjust RV151 so that minimum 1kHz signal at pin ⑩ of IC152.

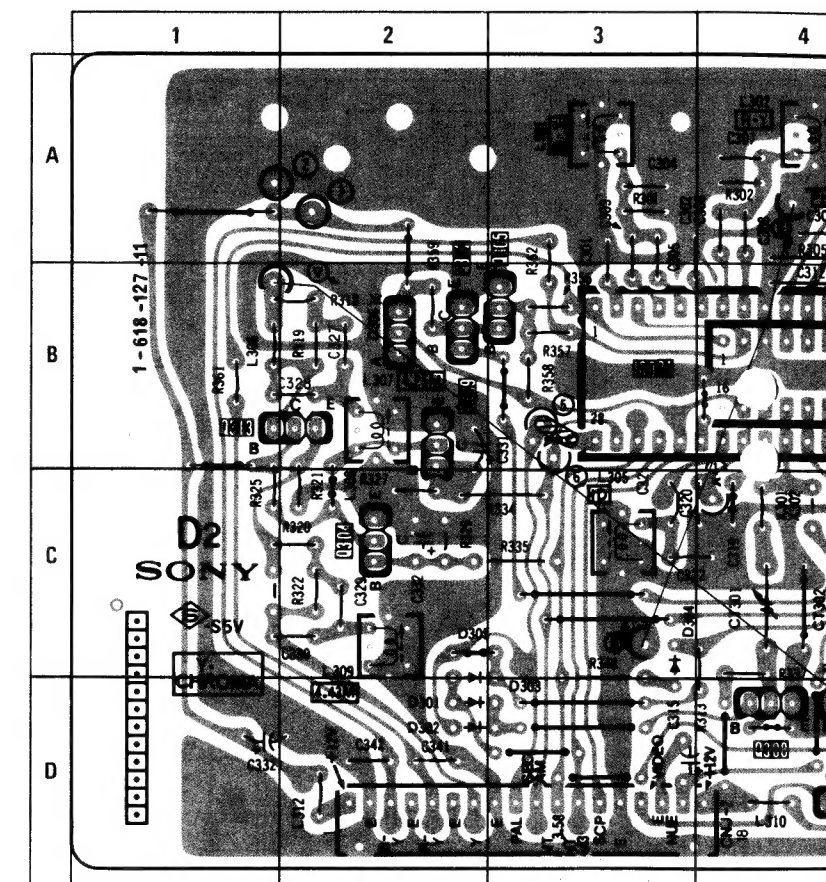
### SIF ADJUSTMENT

**L105 = D-5**

1. *Tune in an off-air signal.*
2. *Adjust L105 for maximum clear-sound.*

## D2

[CHROMA DECODER]



## REF OSC

IC301 = B-3, CT301 = C-4

1. Receive a color bar signal.
2. Ground pin (11) of IC301 and turn color killer OFF.
3. Adjust CT301 so that the movement of picture on the CRT becomes the slowest.

**1H DELAY LINE**

IC301 = B-3, L303 = A-5, RV301 = A-5

1. Receive a color bar signal.
2. Observe the pin (3) IC301 waveform on the oscilloscope, and adjust so that the chroma component becomes minimum with L303.
3. Get tracking with both L303 and RV301 as shown.

## Y TRAP

CNJ-2 = 8. L3

1. Receive a color bar signal.
2. Observe the pin (7) CNJ-2 wav and adjust L309 for minimum 4

